

IN 10 VOLUMES

ENCYCLOPAEDIA OF
**WORLD
& PEOPLE**



HAROLD SHELTON

G K BUCKNALL

**ENCYCLOPAEDIA OF
WORLD AND PEOPLE**

ENCYCLOPAEDIA OF WORLD AND PEOPLE

(In 10 Volumes)

(Volume -10)

AUTHORITATIVE, COMPREHENSIVE
ILLUSTRATED

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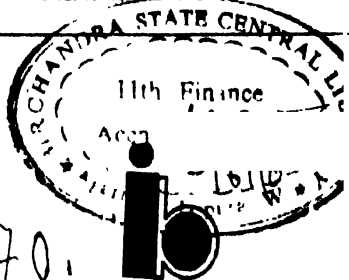
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INTRODUCTION

THIS, the tenth and final volume of the *World Book*, has a twofold purpose which can be summed up in the words "simplification and co-ordination." It is designed to implement its title and to be a guide and companion first to teachers and students who wish to obtain from the work the greatest amount of information on any one subject or any one group of subjects, and, secondly, for reference, in order to make the discovery of any specific fact or facts available in the shortest possible time and with the least possible outlay of energy.

It is inevitable that the centrepiece of any guide to a work of reference should be an index, whether avowedly so or disguised in one or other of the thinly veiled forms which have become almost traditional. The index of the *World Book* strikes, it is believed, a new note in combining the advantages of a straightforward index with the undoubted benefits of a fact guide or fact index, whilst avoiding the pitfalls inherent in both. In order that the index may be used to the best possible advantage it is necessary to consider all the motives which inspired the particular form of presentation adopted, and the scheme according to which it has been elaborated. It would have been relatively simple to compile a plain index extending to the quarter of a million entries which have actually been made, and to have arranged it in the simple alphabetical order which has been adopted throughout in the compilation of the *World Book*. It was thought by the Editors, however, that though such a scheme was admirably suited to a smaller work, and would have involved a minimum of difficulty in compilation, it might well have defeated its own object in the case of the *World Book*. In the first case, such an index is cumbrous to handle, and, though it facilitates reference to particular items whose name is known, it is of no assistance in co-ordinating the study of many items which fall within a single subject. Thus for the student of industry who wishes to refer to the methods employed in the manufacture of coal tar derivatives it would be simple in this scheme to discover the places in which coal tar is treated; but it would be by no means so simple if he wished to proceed to compare the methods employed in the manufacture of other substances for purposes of comparison, for he would have no ready guide as to which substances were in fact treated in that way in the *World Book*. Thus the only method available would be to compile a list of such substances and by a process of elimination refer in the index to each of them and so discovering which were treated in the detail which he required. That is a fault which is inherent in any index which is not capable of a synoptic survey. Moreover, in a compilation of 250,000 entries, it is not always easy to distinguish, as it were, the wheat from the chaff.

Accordingly, always with the idea of simplification and co-ordination in mind, the scheme for a sectional index was explored. Here, again, many difficulties presented themselves before a scheme was finally evolved which, if it is not perfect, is, the Editors believe, at least an advance on anything previously attempted.

At the very beginning of the work a classification of all knowledge was attempted according to the main divisions in which the greater part of the facts contained in the *World Book* are classified, and for which specialist contributors were obtained.

This classification is roughly that which appears in the list of contributors in Volume I. It will be remembered that the plan of the *World Book* is not to present a smattering of all the accumulated knowledge of the human race (for to do that, even in the barest outline, would, to-day, require a work extending to many times the size of the *World Book*, which could only be produced at a prohibitive cost and could only be read by the most leisured—a dream rather than an ideal of practical application), but rather to present a selection of the world's knowledge, chosen so as to conform with what the Editors believe to be the requirements of the great number of potential readers.

It was at first thought that this classification might also serve as a rough guide for the sectional indices, for clearly from the point of view of co-ordination such a plan was highly suitable, gathering together, as it would, in each of a relatively large number of separate sections, all the relative facts pertaining to the particular subject. But though such a scheme would have fulfilled the ideal of co-ordination, it was found that in practice it would not have been consistent with the ideal of simplification, since, in fact, though for editorial purposes the classification was to all intents complete and the various subjects as far as possible mutually exclusive, for the general reader this was far from the case.

It is indeed true that every branch of knowledge owes much to researches in other spheres. The work of the scientist is bound up with the work of the mathematician. The study of economics is scarcely possible without the study of industry. It was found at last that a number of topics overlapped to such an extent that in compiling an index it was impossible to keep them separate. Thus Religion and Philosophy, though at first glance they may appear to be separate entities and call for the writing of separate authorities, are yet so interwoven that for the student one is inextricably bound up with the other. Again, the various expressions of Art ranging from sculpture and painting to photography and creative literature do in fact owe so much to each other, and are so interdependent, that in a work of this nature a single reference may be applicable to all.

Such instances might be multiplied indefinitely. Not only is economics bound up with industry, but so is the study of war and defence with history. At what point can a definite line be drawn between Law and Government? And if Central Government is included in Law, how can the subject of Public Finance fail to be of importance in the same connection? Archaeology is really only one aspect of History; one cannot even say that where one ends the other begins; the division between them is too vague. When one part of the world reveals a written record and a significant history, another part of the world reveals nothing but fragments of lost civilizations from which the archaeologist can barely reconstruct some manner of connected narrative.

If the first scheme had been finally adopted, the result would have been to double or treble the 250,000 entries which were originally contemplated, and would have involved infinite duplication if each section were to be complete in itself. Accordingly, in order to maintain the simplicity which was essential, and to facilitate ease of reference it was abandoned and a fresh classification was made, which, while it avoided unnecessary duplication, maintained the principles of a sectional index and preserved the principles of co-ordination.

Under this new classification knowledge was re-arranged under eight principal

headings under which would be included the subject-matter of the eight sectional indices. These were as follows—

1. History; including Military, Naval, and Air Force matter, Archaeology, Colonization, etc.
2. Law and Government; including Law, Government—Central and Local, League of Nations, Constitution, Public Finance, Politics, etc.
3. Economics; including Trade, Finance, Banking, Mining, Commerce, Industry, Transport, Technics.
4. The Sciences; including Physics, Chemistry, Meteorology and Geography, Geology and Mineralogy, Astronomy, Mathematics.
5. Living Nature; including Anthropology, Animals, Insects, Plants, etc., Biology, Ecology, Sex, Medicine, Nature Study.
6. The Arts including Painting, Music, Literature, Sculpture, Architecture, Photography, Elocution, Dancing, Cinema, Theatre, Opera.
7. Social Life and Education; including Sports, Pastimes, Manners and Customs.
8. Religion, Mythology and the Science of Mind; including Psychology and Philosophy.

THE CLASSIFICATION OF SUBJECTS

It is not claimed that this classification, based as it is on no natural definition of subjects but rather built up from empirical considerations, represents perfection. Obviously even in this subdivision of subjects certain entries are applicable to more than one section, a fact which the reader will do well to remember when using the indices. For instance, Art has always played a part in the social life of the people of every age and every civilization. It might be claimed that we owe to our knowledge of the beginnings of social life. Consequently there are bound to be points where sections Nos. 6 and 7 are far from being mutually exclusive; but the distinction is justified because, in the modern style, Art is studied as a separate entity divorced from the social conditions which influence it. Similarly there is an obvious connection between Anthropology and Social Life, whilst Anthropology itself might well be numbered among the Sciences. The history of Philosophy is bound up with the history of Literature since some of the finest literature of Greece, Rome, France, Germany, and England is to be found in the works of philosophers such as Plato, Boethius, Rousseau, Schiller, Francis Bacon, and Sir Thomas Browne.

It follows, then, that the eight sectional indices are not intended to be treated as necessarily unrelated. Rather one should be used in conjunction with another, although it will be found in practice that so far as possible each one is complete in itself. In order to secure this end it has been found advisable to duplicate certain references, or at least to index the same fact in two different sections in a different way. By means of this arrangement it is confidently expected that any student who refers to the index dealing with the subject in which he is particularly interested will not be compelled to refer to another except for the purpose of extending his studies.

THE SECTIONAL INDICES

Such considerations have qualified to some extent the scheme according to which the indices have been constructed. It remains to explain the ideal according

to which they have been elaborated. Allowing for differences of treatment necessitated by different subjects and for the differences which inevitably arise when anything dependent on human rather than the mechanical agency is produced, the eight sectional indices are homogeneous. The alphabetical arrangement is the same as that adopted in the body of the work, and is the arrangement which has been found to lend itself most easily to ready reference. Each letter in a title is given its proper value, whether the title is contained in a single word or in a phrase. All the facts relevant to the particular subject are indexed in this strictly alphabetical order, but at the same time under the most important titles—such as in the Art Index: Architecture, Painting, Sculpture, etc.—will be found a large number of facts which will preclude the necessity of reading through the entire index in order to discover where to find the principal entries in the *World Book* relating to the topic in question.

The indices present one other feature which it is believed is unique. It is an index of facts rather than an index of words. Wherever there is a possibility of doubt the context of the entry to which reference is made is indicated. Entries from the Historical Index will make this principle clearer.

Athens, hist., 308-9; ancient city, 309a [for buildings, temples, statuary, etc., see Sectional Index No. VI. See also Acropolis, Areopagus, Lyceum, Piræus]; Athens as city-state, 1838b; constitutions and reforms in, 308b, 931a, 1241a, 4006b; rule of the archons in, 237-8, 247a; expansion of city under Pisistratus, 3425b; defeats Persians, 1839a, 3336b, 4218b; builds up an empire, 1151a; age of greatness, 3328b; rivalry with Sparta and decline, 308a, 1839b, 4223b [see Peloponnesian War]; falls before Macedonian armies, 1155a, 3372b; later conquerors of, 309a.

Greece, ancient, 1835-46; archaeology, 224b; Heroic Age in, 1837b [see Argæan civilization; Crete; Mycenæ]; Middle Age in, 1838a; city-states in, 520a, 1838b; period of glory in, 1838b; Athenian leadership in: see Athens; slavery in, 1838b; Greek character and civilization, 1836a, 1837a [see Academics; Games, Oracles]; age of decline and foreign rule, 1840a; Greeks as colonists, 976a, 1461b, 2212b; conquests of Pyrrhus in, 3600a; under Roman rule, 1844a.

The advantages of this method over the much less onerous one of listing merely the page numbers where the information appears needs no further stressing. It is hoped, however, that full use will in fact be made of the indices and of their special features, as in no other way can the full resources of the *World Book* be tapped. In the main body of the work the fullest use is made of cross references, but good though this principle has proved to be, it is impossible to embody in bare cross references any indication of the kind of matter which will be found in the articles to which reference is made. Thus, if information is required on Athens, the best method of obtaining it is to read first the article in Volume I on that city. If all that it is required to know appears there, clearly no further effort need be made, but if a greater amount of information is required, then reference should immediately be made to the appropriate sectional index so as to avoid the necessity of reading through a number of long articles in search of facts which may be contained elsewhere.

This is particularly true of any subject which is connected with the Dominions or with India. In the first eight volumes of the work there are a limited number of cross references to the Dominions Volume, whilst in the latter the freest possible use has been made of cross references to the previous eight. Even so, Volume IX is an amplification of the material given on the Dominions in the first eight volumes, and in fact contains very little, if any, duplication of matter. In compiling the

indices it has been treated in precisely the same way as the main body of the work, of which it has been compiled as an integral part. The suggestion, therefore, is made that in the case of all subjects of Dominion interest reference should first be made to the Guide Volume.

THE DICTIONARY OF BIOGRAPHY

The three other indices included in this volume all require special notice. The Biographical Index is in effect a dictionary of biography in miniature. By reading through the entries which appear under the heading of any great man it is possible to work out the course of his life in outline--an outline which will be given greater detail by referring to the places where the facts listed are elaborated. In deciding on this index the Editors had in mind the old controversy whether man made history or whether it was rather history which made man. They believed that the biographies of great men, in which the *World Book* is unusually rich, stood apart from every other section of the work. Moreover, they were conscious of the difficulty implicit in reconciling the biographies with the scheme of the eight sectional indices as finally decided upon. The contribution to the world's knowledge of many great men has been spread over a number of subjects. A politician is often an historian; the historian is often a man of letters. Specialization in itself is rather a product of the modern world. In ancient times before the printing press had been so much as dreamed of, it was possible for one man to comprehend the sum total that was known of the Sciences. The Greek philosopher might be a physicist: barbarians like Attila the Hun in the dark ages in Europe's history altered the whole course of the world's progress. Names like Alexander the Great and Julius Caesar are names that appear in every phase of human life. If they are confined to history alone their significance is lost. In brief, the Dictionary of Biography guides the reader through human progress and is designed to focus his attention on the men who shaped or influenced the course of its civilization. Accordingly, it is an abstraction from the eight sectional indices; at the same time it is not designed to be treated as a disconnected entity. Rather, just as the sectional indices are mutually dependent and should be used one in conjunction with the other, so the Dictionary of Biography should be used in conjunction with all the eight.

To avoid unnecessary duplication, the references which are made to any man in articles not devoted exclusively to his life in the *World Book* are not listed a second time in the sectional indices. On the other hand, a reference to a person without reference to some action which he did or influence which he exerted is inconceivable, and the action or the influence will be found duly noted in the sectional index. An example will assist to clarify the position. On page 3795 in the article devoted to the "Rump Parliament" we read: "On 6th December, 1648, two regiments under the command of Colonel Pride entered the House of Commons for the purpose of forcing its members to condemn the king. Ninety-six of the members were imprisoned or driven out, and only sixty of the more violent Independents were permitted to retain their seats. The clearance was called 'Pride's Purge,' and the sixty members being, as the Cavaliers said, not the whole Parliament, but only the sitting part of it, were afterwards known by the name of the Rump Parliament." In this extract the reader will note two ways of regarding the same event. First, there are the purely biographical facts relating to the actions

of Colonel Pride; secondly, the same facts may be considered, from an historical standpoint, as "Pride's Purge;" consequently in the Biographical Index we shall find the reference to Colonel Pride, whilst in the Historical Index we shall find the reference to "Pride's Purge."

This is the principle which will be found to be applicable throughout; nor is it possible that it should result in any confusion as the indexers have, as far as possible, placed themselves in the position of the reader who desires to refer to some particular fact. A corollary of this principle is that names of persons are not listed in the sectional indices unless they have a separate entry in the *World Book* devoted to them. To have so listed them would have been an unnecessary redundancy. For the sake of completeness, however, the names of persons who are treated in a separate entry are listed in the sectional index, but only with the bare page number on which the article appears.

One other detail of the Dictionary of Biography must be considered. It contains a vast amount of additional information, particularly about eminent people whose eminence, however, was not such that it justified their receiving a separate entry in the *World Book*. When practicable, the dates of their birth and death have been included. When the context of the article in which they are mentioned does not make plain their contribution to the world's knowledge, this also is indicated. It would be a veritable education in itself to turn over the pages of the biographical index and note from it the part which men whose names may be scarcely known to the general public have played in the development of the world's civilization.

THE GAZETTEER

The index of Place Names, or Gazetteer, is by comparison self-explanatory. It has been abstracted from the scientific index in which Geography appears, as it was felt that a great number of place names appearing indiscriminately among the entries belonging to the various sciences would seriously decrease the value of that index. Also, it is manifest that a list of place names does not really belong to geography in its scientific aspect. The Gazetteer, therefore, is designed to make reference to any town, river, country, mountain system, or other physical feature in any country of the world a matter of a few seconds.

The use of the Gazetteer will be facilitated if the following facts are borne in mind. When a place has a separate entry devoted to it in the *World Book* a reference to the map on which it appears is not given. The town of Peking will afford an example. In the Gazetteer will appear a reference to the main article on Peking together with the information that it is a city of China. Unless otherwise stated it will be found in the map of the country in which it is situated. The same principle applies to towns of England. The index will show to what county each belongs, and the map reference is to the county rather than to a specific map. In this way, the number of map references has been kept to a minimum in order to retain the index within reasonable proportions. Even so there cannot be the slightest difficulty in identifying the situation of any given place.

The same fact must be noted in connection with the Gazetteer as was noted in connection with the Dictionary of Biography. Just as the names of great men appertained in every case to one or other of the sectional indices, so a vast number of place names are applicable to the indices devoted to economics, to law and

government, to history, as well as to geography pure and simple. Due weight has been given to this consideration and, where the information about a place is of an economic nature, the place will be found indexed in the Economics Index; where the information is of an historical nature, the place will appear in the Historical Index, and so on throughout all the indices. It is only where the information given in the *World Book* about a particular place relates to its geographical position and to its population that it has been relegated solely to the Gazetteer.

THE INDEX OF ILLUSTRATIONS

The Index of Illustrations calls for rather more extensive explanation. The photographic and other reproductions appearing in the *World Book* are a unique feature of the work. It is doubtful whether such a characteristic collection of educational photographs has ever been collected within the scope of a single work. They form not only a pictorial representation of everyday things but an education in themselves of the most modern methods of manufacture, of historic events, and of places near and far. There is scarcely a subject which is not amplified by means of half-tone illustrations or drawings. Every picture has been chosen to tell a story. It is largely through the instrumentality of these pictures that it has been possible to present so many subjects in such a relatively short space. The illustrations have, of course, been indexed in the sectional indices alongside with the facts contained in the text, but the Editors decided that there was a marked need for some guide to the pictures themselves, if only to make reference to the pictorial representation of any subject as easy as possible. Consequently the Index of Illustrations has been designed to be a complete guide to all the illustrations appearing in the text, whether colour plates, half-tone illustrations, or line drawings.

The value of this item will readily be seen. The article on Birds, for instance, contains two colour plates, one composite full page of half-tone illustrations and two composite half pages in addition to several illustrations in the text. In all there are pictures of close on fifty different birds, including the greater number of the common British birds and many of the more interesting and exotic birds from foreign countries. Under the articles devoted to specific birds the Editors, mindful of this fact, have frequently avoided inserting another illustration which would, in fact, be a duplication. At the same time, a reader who desired to find a representation of some particular species could not be expected to know to which article to refer. The Index of Illustrations will resolve this possible difficulty, as all the birds appearing in the article on Birds are indexed under their specific names—Jay, Skylark, Starling, etc.

This is only one of a vast number of instances which might be quoted. In the article on Bacteria and Bacteriology, a number of microphotographs have been included. The reader who wished to discover the precise nature of a microphotograph could not well be expected to refer to the article on Bacteria without some guidance, but by referring to the Illustrations Index under the heading Microphotograph, this would immediately become evident. In the article on the late Sir James Barrie there appears the statue in Kensington Gardens of Barrie's famous character, Peter Pan. This is duly indexed in the Illustrations Index under the title "Peter Pan." In the article on Biology there is a most illustrative photograph of a honeycomb sponge, which is in fact a most admirable addition to the

information given under the article *Sponge*. Its place in the *Illustrations Index* under this heading will enable that additional information to be found with the minimum of trouble. In the article on *Archaeology* we find an example of Sumerian sculpture which conveys a story at least as appropriate to the latter subject of *Sumeria* as to the article in which it appears. In the article on *Berkshire* there will be found, among other illustrations, a picture of one of the most charming reaches of the River *Thames*, which gives much additional information at a glance with regard to the nature of the country through which the *Thames* flows. If, for instance, a survey of England's most important river were designed, reference to this picture would be essential and could only be discovered from the *Index of Illustrations*. It is unnecessary to expatiate further on the use of this particular index. Enough has been said to indicate that it is a necessary and integral part of the *Guide Volume*.

THE STUDY GUIDES

The scheme for the eight sectional indices appeared most satisfactory, from the point of view of reference, and satisfied amply the requirements of simplification and co-ordination which the Editors set before them. In spite of this it was felt that still further provision might suitably be made for the teacher or student. The *Study Guides*, which have been compiled to cover most of the subjects usually studied in schools and many outside that category, are designed expressly to assist the teacher or student to discover without a moment's hesitation where to look for all the information contained on any one subject in the *World Book*. Once again the classification of all knowledge made in Volume I was considered, but it was believed that a number of subjects there listed had a general rather than an educational significance. Consequently, a number were omitted. After much deliberation it was decided to divide the first sectional index, that dealing with *History* and related subjects, into three divisions—*History*, *Archaeology*, and *Defence*; similarly the second index entitled *Law and Government* was divided into a number of sections including various branches of law and local and central government. The third, the *Economics Index*, presented a more difficult problem, for all the topics enumerated in it are so closely bound up with one another that it seemed an unprofitable task to attempt to separate them. Consequently the main *Study Guide* is to *Economics*, with shorter ones devoted to *Banking and Finance* and to *Transport*. It is unnecessary to enumerate further the subjects which have been separated from the *Guide Indices* of which they form a most important part. They are duly listed in the contents. But it is confidently hoped that the majority of the subjects have been included to which the average teacher or student would wish to refer.

The purpose of these *Study Guides* is essentially, as the name suggests, to guide the student through the articles which appear in the *World Book* and are directly related to the subject under review. They show how the subject may be studied in the *World Book* from first principles to the greatest amount of detail compatible with the work. They set, as it were, a syllabus of studies, and will, perhaps, be most appreciated by teachers who are called upon at short notice to give a course of lessons on a subject which they have not taught for some time, and by parents who are anxious to direct their children's programme of studies with the help of

the work. They will be equally useful to the student himself in assisting him to co-ordinate his knowledge on any given subject and in showing what relation one part of a subject bears to another. It is perhaps in this very aim of co-ordinating and revising knowledge already gained that the Guide Volume of the *World Book* makes its greatest contribution to Education. The Study Guides also take the place of extended lists of related subjects which otherwise would have been necessary in the body of the work.

THE READING LISTS

The division of knowledge adopted in the compilation of the indices has been followed throughout the other items, which combine to make the Guide Volume such a vital part of the whole work. Just as the Study Guides are based on a further division of the sectionalized index, so the Reading Lists are based on this new subdivision. It is manifest that a work such as the *World Book* can only present the most general introduction to a subject in all its various ramifications. The student who is interested in what he has learned must of necessity extend his reading before he can claim any full acquaintanceship with his subject of study. The Reading Lists have been compiled to assist him in this aim and to help him to elaborate his knowledge in any particular branch of a subject in which he is most interested. Academic comprehensiveness is not aimed at, but rather a bibliography which will be just as much an instrument in the service of users of the *World Book* as is the Index. The books listed are almost entirely those which are either of moderate price or readily obtainable at libraries. As the longer articles of the *World Book* are themselves in the nature of an introduction to the subject, the books suggested include titles of a general introductory nature designed to implement the lines of the articles, and also more advanced books dealing with special aspects of the subject. In recommending books on controversial issues "axe-grinding" books have been avoided, but wherever possible two books presenting opposite views on the issue are preferred to the so-called impartial book which usually suffers from indifferentism. Again, books giving facts have been preferred to books which contain mainly an expression of opinion. Wherever it has been thought necessary a very brief description of the book has been given. It is probably true that any Reading List which is not comprehensive (a glance at the imposing size of some bibliographies on a single subject will indicate how immense this would be) must fall short from the point of view of one reader or another. At the same time, the longer the list the more difficulty there is in choosing the most appropriate book. The Editors hope that the selection made is comprehensive enough to satisfy the requirements of the average reader, and at the same time not so comprehensive as to defeat its own object.

THE QUESTIONS

An unusual feature of the Guide Volume is the number of questions which are appended to many of the Study Guides. The general scheme of these lists of questions is to propound questions of varying difficulty and to indicate where in the *World Book* outline answers will be discovered. It is hoped that they will stimulate the teacher in instructing students and will assist students in self-examination. In view of the multifarious classes of students for which the *World Book* is designed

it has been thought best not to confine the questions to any standard of difficulty, but rather to include under each subject some which are suitable for junior students only, some which are more adapted to senior students, and a larger number which are either in the nature of questions relating to essential knowledge, or as it is sometimes called general knowledge, or are equally applicable to students of moderate and advanced standards of learning.

THE SYNOPTIC CHARTS

The Fact Indices, the Introductory Study Guides, the Reading Lists and the Questions, are the main items in the Guide Volume, but under a number of the sections other items will be found of assistance to the student and teacher. The comparative charts form an item of special interest. They will be found in the Historical section and also in the Economic section. Those dealing with history are two in number and form a complete synopsis of the world's history before the birth of Christ. Once more the main purpose in mind has been co-ordination of knowledge. Too often the history of one country is entirely divorced from that of another. The relative dates of the Egyptian Dynasties and of the foundation of Rome are unknown. So much detail is crowded into the mind that the great events which have shaped the course of the world's history are overlooked. The literary contributions of an age are not always seen in perspective with the actual events of the period. The synoptic charts of the *World Book* present all these details side by side in such a way that at a single glance a student can comprehend the course of a century or of a whole era in the world's history. The charts given in the Economic section illustrate the growth in trade and population of a number of principal nations of the world during recent years. Each taken separately, obviously, is of considerable educational value, taken together they are a commentary on the economic history of the past century.

The other items which appear are largely of a schematic or diagrammatic nature which were inappropriate to the main eight volumes of the work but which the Editors have had in mind with a view to making the knowledge contained in the work as wide and as complete as possible.

THE PERSONNEL OF THE GUIDE VOLUME

The value of the Guide Volume, however ably it is planned, must depend in the final instance on the skill with which it is compiled and the experience on which the compilers are able to draw. Similarly, the compilation of Guide Indices such as those included in the volume obviously demands a specialist experience which would be unnecessary in a general index. The Editors have borne these facts in mind throughout the compilation of the volume, and have been extremely fortunate in securing the services of a team of contributors which could not possibly have been bettered. All the indices, and every other item in the volume, have been prepared under the immediate supervision of the General Editor, who has also contributed from his own pen the Study Guides on Archaeology, Philosophy, and Literature, and the synoptic charts of Prehistory and Ancient History, as well as a number of the reading lists and questions. The Index on Economics is the work of Otto van der Sprenkel, sometime Professor of Social Science in the University of Toronto, who is also the compiler of the Living Nature Index, in co-operation

with an experienced biologist. The same contributor also prepared the Reading Lists of history and economics and those devoted to the social sciences, as well as many of the questions and the schematic diagrams illustrating local and central government, and those which appear in the section concerned with Living Nature. E. V. Burke, B.A. (Cantab), a brilliant historian, is entirely responsible for the Historical Index, a task for which he was all the more fitted through having read the proofs of a large part of the previous nine volumes. S. M. Krusin, M.A. (Oxon.), Barrister-at-Law, and the contributor of many of the legal articles to the *World Book*, has compiled the Index of Law and Government, and the Study Guides appertaining to these subjects, whilst L. B. Schapiro, LL.B., the well-known lecturer and educationist, has compiled the Index of the Arts, and also that devoted to Social Life and Education. Dr. R. Aris, author of *History of Political Thought in Germany* and the contributor of the article on Socialism to the *World Book*, is the compiler of the Guide Index dealing with Religion, Mythology, and the Science of Mind. Dr. Aris also executed the Dictionary of Biography and a number of Study Guides and Reading Lists related to those topics. The Gazetteer is the work of W. J. Leaper, contributor of many articles on Economics and Economic Geography to the *World Book*. Finally, the Index of Illustrations is the work of John Cabourn, who has been intimately associated with the Editors in the production of the *World Book*, particularly in the presentation of its illustrations, whilst Harold J. Courtney, who also has been associated with the work throughout the period of production, has contributed a number of the Study Guides and Reading Lists. The Editors are justly proud of the talent which has contributed to the making of the Guide Volume, and are confident that it represents the highest degree of skill and accuracy that could be achieved.

HISTORY

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STUDY GUIDE

GENERAL HISTORY

It was Voltaire who somewhere described history as the "record of the follies of our ancestors." This remark, although somewhat caustic, at least begins to give an explanation of wherein the usefulness of history lies. Granted the assumption, in our day it seems perhaps a rather bold assumption, that men can learn from experience, the study of history should, to put the matter at its lowest, teach us what mistakes to avoid. It is true and has even become part of our proverbial wisdom that "history never repeats itself"; and if we would use history as a guide we must never forget that even when the same historical situations recur, they recur with a difference. The same broad pattern is repeated, but always with changing detail and in a new context. That is why mechanical interpretations are always misleading, and why the true meaning of the equivocal lessons of history is often better revealed by the imaginative intuition of the poet than by the assiduous delving and mining of the scientific historian.

This is not to deny the enormous importance of the scientific historian: of those who amass the factual raw material of historical science, of the careful editors of voluminous state papers, of the research-workers who establish or deny the authenticity of historical documents, who sift and weigh the evidence on which historical conclusions as to matters-of-fact are based. For these minute particulars must be the tested foundation of historical generalizations: and the wide-sweeping imagination, if its intuitions are to be fruitful, must be an imagination adequately and correctly informed.

But if history can mislead as well as warn, can it also lead: can history, that is, as well point out for the future those paths that will guide mankind towards a desired goal as it can indicate, to whoever is able to read its warning signals, those dangerous paths that in the past have led other generations to disaster? Our answer to this question will depend largely on whether we believe history to be a meaningful process to which men's will has given a human purpose, or whether we take an opposite view and regard history as the record of a vast chain of accidents, dominated at every turn by what Burke once called "the little minor of circumstance," and humanly meaningless because it is a record of motives frustrated, of vain activity and of goals never reached.

On this view history cannot with strictness be called a science. The historian, according to his inclination, may play the moralist or the cynic. He cannot rise above the isolated fact, and formulate a generalization, because the only generalization that remains is his belief in the chaos of accident upon accident.

No scientific historian will deny the important part played in history by the fortuitous; but the comparatively ordered patterns into which historical facts arrange themselves when they are viewed in a broad enough perspective may well be thought to preclude the possibility that chance plays the predominating rôle in the pageant which history unfolds. It is precisely in so far as the historian grasps these patterns and makes them visible to his reader that he ceases to be a mere

chronicler and becomes an historian. It is history, conceived in this sense, that can be a guide for the future, which develops out of the present in the same way and by the same laws as the present grew from the past.

The poet-historian, whether it be Thucydides writing about the great war between Athens and Sparta, or Gibbon describing the decline of Rome, or Michelet bringing to new life the history of France, knows that his facts illustrate a theme, and that the theme in turn gives unity and meaning to the facts. Accidents in history are not born free and equal. Some are selected, used, and are lent significance by historical necessity. Others are rejected: their potentialities for good or evil ignored. The appearance of Napoleon at a critical moment with his "whiff of grape-shot" may have been an historical accident. It was later given to Napoleon to command great armies. But can it not be plausibly argued that History commanded Napoleon?

If we grant that the long course of human history reveals something of order and plan, that its abiding themes can be uncovered and displayed, that its dynamic factors can be isolated and understood, then the utility of its study can no longer be denied.

But there is something else that we should remember. History is written by historians, and historians, being human, are not only fallible but possess strongly marked and highly individual points of view; and for this reason, just as in the daily press "views" are said to colour "news," so in the writing of histories the standpoint of the historian will inevitably affect his selection of facts and his interpretation of the facts he selects. Grote's well-known *History of Greece*, with its fervent defence of Athenian democracy, was an intentional counter-blast to the *History of Greece* "written for the Tories" by Mitford. Macaulay's *History of England* is frankly Whig, and it is difficult to believe that all the villains are as black or that all the heroes are as virtuous as Macaulay has pictured them. Nevertheless, Macaulay's *History*, and Grote's, belong among the greatest historical works in our language. Dishonesty in an historian can never be forgiven; but partiality, especially when it is open and admitted, and when it can be recognized and allowed for, must in most cases be numbered among the unavoidable defects of the historian's qualities.

It is this subjective element in the historian that makes "each generation rewrite the history of the past in terms of its own problems and outlook." One result of this is that an eighteenth-century history of the decline of Rome, whether it be Gibbon's or Montesquieu's, will tell us almost as much about the eighteenth century as it will about the decline of Rome. A second is that by adding one history to another, by setting the work of one historian with his special emphasis and consequent selection of facts by the side of the work of another historian who views the subject with a different eye, who places his accent elsewhere and stresses facts which his colleague has slurred over as unimportant, we obtain a more complete picture of the events and characters described. For example, a parallel reading of the Dantonist histories of Prof. Aulard with the Robespierist histories of Prof. Mathiez provides a more detailed, balanced and rounded account of the French Revolution than could be gained from the separate reading of either. And a third result is a considerable gain in the vividness and colour with which the historical scene is laid before us. The difference between history "penny plain" and "twopence coloured" lies partly in the ability of the historian to enter into and imaginatively live the life of the period about which he writes; but also in his ability to report

that imaginative experience in terms that the reader can understand by relating them to contemporary life and present-day situations.

History is made by men: political history by men associated together in some kind of state-organization, the basis of their association being usually territorial or racial. Since the opening of the modern era, in the fifteenth century, States have come more and more to coincide with national boundaries, and the scheme of political history to fit with greater exactness into the compartments created by the modern nation-states. This situation is being rapidly modified by the progress of modern technique, increasing the interdependence of the nations at the same time as it decreases the size of the globe. Nevertheless, while nationalism remains a dynamic factor in human history, the nation-state will remain a focal point for the historian: and it is in the first place to the articles on national history that the reader must turn for information. In these articles enough references will be found (references which can be supplemented by using the Biographical and Historical Indices) to point the way to more detailed aspects of the subject. But if the nation-state provides the convenient framework of modern history, the moving forces of historical life must, to a large extent, be sought elsewhere—in the lives of the inventors, in the development of commerce and trade, and in the advance of technology, and in the writings of those philosophers and scientists who make an ever-transformed world conscious at each step of its transformation.

History is essentially a single and continuous process; but for purposes of study some sort of classification is necessary. Such classification is normally either temporal or local, or a combination of both. In addition we can select facts bearing on a special subject, the history of music or of medicine, of something as recent as wireless telegraphy or as old as political philosophy: and it must be borne in mind that such special histories will invariably have something significant to tell us about the general history, social, political and economic, of the period to which they refer. Finally, the historian is always, and must be, indebted to a number of other specialists, from the archaeologist to the economist, all of whom can in their own way supplement his information and throw light on the darker corners of his subject. Classification, in a study of such wide scope and ubiquitous penetration as history, is unavoidable; and doubly so in an encyclopaedic work such as the *World Book*. But although subdivision and separation are necessary for convenience's sake, we must, to obtain a clear understanding of any period or historical topic, collect together the separate elements, examine their inter-relations, and out of the individual stones build up the complete edifice, and then, if we so desire, pursue our explorations into the adjacent countryside. The best way of explaining this method of using the *World Book*, of collating, that is, the historical material that is to be found within it, is by taking one or two concrete examples.

Let us take as our first illustration the French Revolution. Our first step is to turn to the main article on this subject, where we will find a succinct account of the course of the Revolution from the summoning of the States-General to the rise of Napoleon. This account can then be filled out by referring to the articles COMMUNE OF PARIS, DANTON, GIRONDISTS, JACOBINS, LAFAYETTE, LOUIS XVI. MARAT, MARIE ANTOINETTE, MIRABEAU, and ROBESPIERRE. To place the Revolution in its historical setting we can look for some information as to its causes under FRANCE, HISTORY AND LITERATURE, and DIDEROT, ENCYCLOPAEDIA, MONTESQUIEU, ROUSSEAU, and VOLTAIRE. The repercussions of the French Revolution abroad

can be studied in the articles on the history of AUSTRIA-HUNGARY, BELGIUM, ENGLAND, ITALY, NETHERLANDS, PRUSSIA, RUSSIA, and SPAIN, and in the articles devoted to contemporary political and military leaders in those countries, such as CATHERINE II and ALEXANDER I of Russia, BURKE, FOX, NELSON, PITT, and WELLINGTON in England, etc. The most important effects of the Great Revolution are indicated in the articles on NAPOLEON and on the post-revolutionary history of FRANCE.

For a second example, this time from economic history, we may take the Industrial Revolution. We will again find a point of departure for our inquiries, and a rough but adequate framework for our studies in the main article. A reference to the article on the history of ENGLAND and to such articles as COMMERCE, GUILDS, etc., will provide us with a background against which to see our subject. The special forms which the Industrial Revolution took in different industries are explained in such articles as AGRICULTURE, COAL INDUSTRY, COTTON, IRON and STEEL; while further reference can be had to the articles on BRIDGES, CANALS, the FACTORY SYSTEM, RAILWAYS, SHIPS and SHIPPING, SPINNING, the STEAM ENGINE, TRANSPORT, and WEAVING. We will also find a great deal of relevant information under the biographies of the great inventors of the period: ARKWRIGHT, CARTWRIGHT, CROMPTON, HARGREAVES, MORSE, STEPHENSON, WAIT, and WHITNEY, and in the main article on INVENTION. The influence of the Industrial Revolution on economic thought can be traced in the articles on ECONOMIC SCIENCE, and in those devoted to MALTHUS, MARX, MILL, RICARDO, and SMITH. And finally, some of the important social and political effects of the industrial changes that transformed England into the workshop of the world are dealt with in the articles on LABOUR LEGISLATION, LABOUR ORGANIZATION, REFORM ACTS, and the like.

To sum up: the reader is advised to go straight into the middle of the subject in which he is interested, and then to work gradually out from the centre to the circumference, endeavouring to make each new clue suggest a further line of inquiry.

QUESTIONS

ECONOMIC HISTORY

1. Describe the part played in medieval economic history by the guilds.
Pages 987, 1868.
2. What were the effects of the voyages of discovery on the economic life of Europe?
Pages 980, 1243, 1668, 1990, 2621, 3641, 4378.
3. When and why were medieval restrictions on the practice of usury relaxed?
Pages 987, 4355.
4. Explain the theory of mercantilism.
Pages 987.
5. Trace the main stages in the history of the British colonization of the Americas.
Pages 729, 2084, 3317, 4345, 4393.
6. Describe the essential characteristics of (a) the domestic system, and (b) the factory system.
Pages 1494, 2172, 3917.
7. Discuss the development of the cotton industry during the Industrial Revolution.
Pages 255, 785, 1920, 2168, 4050, 4438, 4463.
8. What do you know of the work of any three of the following: Daimler, Davy, Nasmyth, Newcomen, Stephenson, Watt, Wilbur and Orville Wright?
Pages 48, 950, 1133, 2207, 2872, 2937, 3006, 3355, 3628, 3824, 4077, 4078, 4081, 4275, 4435.
9. Give some examples of trustification in industry, and show their significance in the organization of the economic life of the world to-day.
Pages 3734, 4290.
10. What is meant by "industrial rationalization"?
Pages 3649.
11. "Therefore that one covetous and unsatiable cormorant and very plague of his native country may compass about and enclose many thousand acres of ground together within one pale or hedge, the husbandmen be thrust out of their own." Do you think Sir Thomas More's attack on the enclosure movement justified?
12. Discuss the rôle of the Trading Company in the colonial expansion of England.
13. It was England that led the world in the period of the Industrial Revolution. Estimate the advantages and disadvantages consequent upon this fact.
14. "Ill fares the land, to hastening ills a prey
Where wealth accumulates and men decay."
Is this a justifiable indictment of the half-century which followed the Industrial Revolution?
15. Account for the decline of British agriculture in the nineteenth century.

EUROPEAN HISTORY

1. Give a brief account of the important features of feudalism.
Pages 81, 620, 1522, 2654, 3909.
2. What do you know of the struggle between Empire and Papacy during the Middle Ages?
Pages 1625, 1854, 1990, 2047, 2320, 3490.
3. Estimate the importance of the Crusades in European history.
Pages 1082, 1474, 1625, 2182, 2301, 2585, 3711, 3833.
4. Discuss the political consequences of the Reformation.
Pages 703, 1617, 1987, 1989, 2600, 3666.
5. Give an account of the foreign policy of Louis XIV.
Pages 1617, 2272, 2586, 4108, 4472.
6. *Raison d'état* was the guiding principle of the political conduct of Frederick II of Prussia. Discuss.
Pages 1626, 2668, 3570, 3912, 4108.
7. Describe the policies of the different factions in France during the Great Revolution.
Pages 1123, 1637, 1763, 2266, 2413, 2588, 2662, 2668, 2794, 3732.
8. What do you understand by the "Metternich system"?
Pages 1007, 1475, 2752.
9. Give an account of the revolutionary movements of 1848.
Pages 342, 454, 1618, 2935.
10. Write notes on either the unification of Italy or the foundation of the German Empire.
Pages 811, 502, 1082, 1745, 2256, 2708, 2936, 3570, 4475.
11. Describe the part played by the "balance of power" theory in the policy of the Great Powers during the seventeenth century.
12. It is to the French Revolution that we owe the discovery of modern nationalism. Discuss.
13. Estimate the influence of sea-power on history.
14. Wars were once fought for religious or dynastic reasons. To-day their causes are economic. Do you agree?
15. Great men do not make history, but history great men. Compare this view with its opposite.

ENGLISH HISTORY

1. The influence of the Norman Conquest on the later development of Great Britain can hardly be exaggerated. What do you consider to have been its most important results?
Pages 619, 1228, 1922, 1931, 3058, 4468.
2. Write short notes on either Edward I or Simon de Montfort.
Pages 620, 1332, 2473, 3880.
3. What do you know of the causes and course of the Hundred Years War?
Pages 78, 620, 842, 1337, 1981, 2093.
4. Describe the course of the Reformation in England in the reigns of Henry VIII, Mary, and Elizabeth.
Pages 1060, 1077, 1392, 1986, 2391, 2444, 2683, 2855, 4506.

5. Give some account of the causes of the English Civil War.

Pages 809, 838, 1075, 1906, 1498, 2227, 2271, 3770, 3930.

6. Discuss critically the main lines of British foreign policy between 1660 and 1688.

Pages 623, 839, 2272, 2587.

7. Compare the policies of the Whig and Tory factions in the hundred years that followed the Bloodless Revolution of 1688.

Pages 176, 527, 623, 658, 1013, 1722, 2674, 3062, 3169, 3427, 4459.

8. Discuss the rôle of either Clive or Wolfe in the expansion of England in the eighteenth century.

Pages 729, 936, 2154, 4506.

9. Trace the successive steps in the extension of the franchise from 1832 to the present day.

Pages 1620, 1768, 1855, 3271, 3665.

10. Give a brief account of the free trade *versus* tariff reform movement from the time of Joseph Chamberlain to the Ottawa Conference.

Pages 828, 1630, 2137, 3561, 4171.

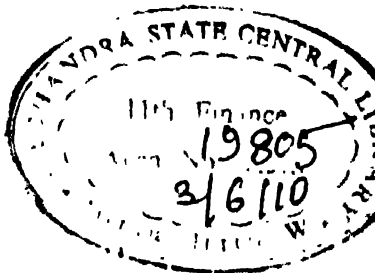
11. Compare the relations between Crown and Parliament during the reigns of Queen Elizabeth and Charles I.

12. Explain, with references to contemporary legislation, the constitutional results of the Revolution of 1688.

13. "The power of the Crown has increased, is increasing, and ought to be diminished." Explain this famous resolution, moved in the House of Commons by Mr. Dunning, by setting it in its historical context.

14. Do you regard "continuity" as an essential feature of foreign policy? Illustrate with reference to the history of British foreign policy.

15. It is to the revolutions that did not occur in the nineteenth century, rather than to those that did in the seventeenth, that we owe our present political rights and constitutional system. Comment.



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 WILMORE, A.: *Industrial Britain, A Survey*. Harrap. 1930. 365 pp.

ARCHAEOLOGY

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STUDY GUIDE

GENERAL. ARCHAEOLOGY

ARCHAEOLOGY in its most restricted sense is the investigation into the "history" of periods previous in time to the earliest historical ages. Thus Archaeology forms an integral part of many other studies. It is the science on which Anthropology and Primitive Sociology alike are based. By it the evolution of the earliest forms of Architecture and Art can be observed. It is important, too, in so far as it demonstrates the first stages in the development of every human achievement or activity.

It is rather in conjunction with such studies as art, anthropology or the like that Archaeology is usually studied by junior students; in these connections the available information will be found concisely placed before the reader in the appropriate article: but there is adequate information in the *World Book* also to give an insight into the method of the science and a synoptic view of the principal discoveries made.

Archaeologists have been called "pick and shovel historians" because it is their function to reconstruct parts of the world's history from discoveries made either on the surface of the ground or by excavation. The remains of the most ancient men are buried generally in the gravels which were deposited along the sides of prehistoric rivers belonging to the period known as the River Drift Period. Later civilizations are represented by finds made on the surface of the earth or buried a few inches under it, since within the last seven thousand years or more the greater part of the earth has remained unchanged in form.

Within the last hundred years great strides have been made in the study of the subject. Previous to that time, objects from the Stone Age were recognized, but their purpose and method of construction remained unknown. To-day, as a result of intensive research and painstaking excavation on a number of sites, it is possible to study Archaeology in periods, each of which represents a distinctive civilization, known to us as separate entities usually by the difference in the material which was used in the manufacture of the implements and weapons. No definite limit in time is set to the point at which Archaeology ends and History begins, but it may generally be said that the point is marked by the beginning of written records.

Two of the most important facts which have emerged are, first, that the same stages of civilization have been achieved at different times in different parts of the world, and secondly that these prehistoric civilizations, contrary to the older theories that culture started with the historic period, were, in fact, periods of real culture in which within the limit of the material to hand great strides were made in the evolution of the Arts, the Science of Government, and the development of social life and civil organization.

There are two possible methods of approach to the study, one by investigating the archaeology of specific countries, the other by studying the various periods into which, as mentioned above, it has been divided. The second method is in fact an almost necessary introduction to the first, for in some countries there are

traces of only a few of the cultures known to have existed, whilst certain countries show individual peculiarities. The main article on Archaeology gives a general idea of the field to be covered, with special reference to the prehistory of Egypt, Palestine, Asia Minor, Greece, and Great Britain.

The earliest of the prehistoric periods is known as the **STONE AGE**, which extends in time from the dawn of man until first copper and then bronze were introduced. It takes its name from the fact that the only material available at that time to primitive man was stone, and the culture is marked by implements and weapons manufactured from the flint nodules which are commonly found in chalk country and elsewhere. The references in the index to **STONE AGE** and **FLINT IMPLEMENTS** will make the position clearer.

The Stone Age does not represent a single civilization, but rather a very large number which have been given various terms more or less descriptive of them. So the earliest is the Eolithic Age, or dawn of the Stone Age, from the Greek words for "dawn" and "stone." The next is the Old Stone Age or Palaeolithic Age, which is divided into a number of cultures. The evidence for these periods, extending perhaps over 50,000 or more years, is confined to discoveries made in the River Drift gravels and in caves which were inhabited from time to time by prehistoric man, particularly a number which have been fully explored in France and Spain. **ANTHROPOLOGY**, **STONE AGE**, **FLINT IMPLEMENTS**, and **EARTHWORKS** are the principal headings under which references will be found in the index additional to the material found in the article on Archaeology. See also **EGYPT, ANCIENT**.

The New Stone Age or Neolithic Period is distinguished from the preceding not by the difference in the material but rather in a difference in the method of its treatment, for the remains of this civilization, which may or may not have been a single one, are scattered over the face of the earth, many of them being above ground. A high religious and tribal consciousness appears to have marked these peoples, whilst their implements show a marked advance on the cruder examples of the preceding cultures.

After the Stone Age there is a transition to one in which bronze was worked in manufacture. Since bronze is not found by itself but is an alloy of copper, it follows that the use of copper must have preceded the use of bronze, but unfortunately there is very little evidence of a copper age in any part of the world, although that does not justify us in denying that one existed. The use of bronze was followed in the course of time, sometimes a mere 1500 years—in other parts of the world several thousand years—by the discovery of Iron, which gives its name to the most recent of the archaeological periods, the Early Iron Age.

One fact must be borne in mind in studying each and all of these periods, namely, that there is no clearly cut distinction between one age and the succeeding one. The use of bronze, for instance, did not end suddenly at a time when that metal was supplanted by iron. Even among primitive peoples trade was widely carried on and iron must have been known long before it was widely used. Even when the new metal had become well-known bronze also must have been used at the same time. Moreover, although excavation shows that the general trend of civilization was by the penetration of new cultures moving, for instance, over Europe from East to West, even if that is allowed we should still expect to find conqueror and conquered living side by side, the one learning much from the civilization of the other.

The **STONE AGE** and **IRON AGE** are both treated separately, while additional information will be found in the references given in the index. The material on **BRONZE AGE** is chiefly contained in the article on **ARCHAEOLOGY** and in that on **PREHISTORIC BRITAIN**. As regards the study of the subject country by country, the last-mentioned article gives an outline of the principal periods and their remains as discovered in Great Britain. The articles on the English, Welsh, and Scottish counties deal in almost every case with the principal remains visible to-day. Together these form an almost complete survey of the subject as regards Britain. In the **Dominions Volume** also there are separate articles devoted to the **ARCHAEOLOGY** of Australia, Ireland, India, and South Africa, all of which are particularly significant. The **Archaeology of America** is covered by the references given under the heading **AZTEC** in the historical index. **Egyptology**, which in itself is an almost self-contained and special branch of **Archaeology**, is fully surveyed in the article on **Egypt**. The student is referred also to the entries shown under the index headings **AEGEAN CIVILIZATION**, **ASSYRIA**, **BABYLONIA**, and **GREECE**.

One further fact will become apparent from the consideration of the data recorded in these articles, not only that the periods recorded were not co-extensive in different countries, but also that the cultures dependent on the materials available to primitive man persisted in some cases until a much later date. As an instance of this, it is said that the **Tasmanian Race**, which has only just become extinct, was an example of a race living in a **Stone Age** similar to the **Palaeolithic Age** in Britain, whilst the present **ABORIGINES** of Australia have achieved a culture similar in many ways to that of Britain's **New Stone Age**, when primitive cultivation and the keeping of cattle seem first to have been attempted.

QUESTIONS

ARCHAEOLOGY

1. Outline the distinguishing features of any three of the civilizations which were established in Britain before the advent of the Romans.

Pages 3530, 3532, 3533. See also articles on Stone Age and Iron Age, and the picture on page 4091.

2. Salisbury Plain has been called the metropolis of the Stone Age in Britain. To what extent is this true? What are the principal districts outside Wiltshire in which traces of Stone Age civilization have been discovered?

Pages 4480b, 4481a. See articles on Prehistoric Britain and Wiltshire. See also pages 2854b, 2926b, 3075a, 3202b, 3948b.

3. "The Palaeolithic Age did not consist of one but of many cultures." Which are the three principal cultures usually classified under this heading? Describe the principal characteristics by which the flint implements belonging to each are known.

Page 4092a. See also page 185a.

4. What light has been thrown by Archaeology on the science of Anthropology?

See article on Anthropology, particularly 184b, and 185. See also articles on Archaeology, Geology, and Stone Age.

5. Trace the growth and development of hilltop fortresses in Britain.

Pages 3532b, 3533a. See also the article on Earthworks.

6. Enumerate the principal remains of the Bronze Age and the early Iron Age respectively.

Page 3533.

7. Describe the three principal groups of stone monuments. For what purpose was each of these raised?

Pages 4090-4092, 2969a. See also article on Prehistoric Britain.

8. Compare Stone Age culture in England with that in any two other countries.

See the whole of the article on Archaeology, also pages 4623b, 4843a, 4939 *et seq.*

9. Describe some of the principal characteristics of the Prehistoric Iron Age, and show how this culture varied in different parts of the world.

Pages 2230, 2232b, 4845a, 2226, and the whole of the article on Archaeology. See also page 2956 for the Iron Age in Assyria.

10. "Archaeology is a product of the last hundred years." Name the outstanding discoveries and archaeologists associated with the early history of the subject.

Pages 220b, 221a.

11. "The most important archaeological site in the world is Greece." How far is this statement true? Describe the light which has been thrown on early culture by discoveries in that country.

Pages 222b, 224b, 225a. See also article on Greece and page 1837b. See also index references in the Historic sectional index under Aegean Civilization, Crete, Mycenae.

12. Describe the culture of the Aztecs in America.

Pages 226b, 2753b, 2756b, 3065a. See also article on Aztecs, 2019b, for a description of their writing, and page 3888a for the place of their sculpture in the history of Art.

13. What were the outstanding events in the history of Egypt prior to 1500 B.C.? Pages 1357b, 1358a.

14. It has been said that the beginning of the second millennium B.C. was the turning point in the history of the world. Discuss this with reference to the principal civilizations known to have been existing at that time and 500 years later.

See the Synoptic Chart of Prehistory, and the articles on Prehistoric Britain, Ancient Egypt, Stone Age, and Archaeology.

15. Describe the road system of Britain, (a) before the Roman Conquest, (b) as laid down by the Romans.

Pages 3530b, 3532a. See also the articles on Roman Britain and on Pilgrim's Way.

READING LIST

ARCHAEOLOGY

GENERAL INTRODUCTION

With particular reference to the Archaeology of Britain.

British Museum:

Guide to the Antiquities of the Stone Age. 1926.

Guide to the Antiquities of the Bronze Age. 1920.

Guide to the Antiquities of the Early Iron Age. 1925.

CRAWFORD, O. G. S.: *Man and His Past*. Oxford University Press. 1921. 244 pp. 10s. 6d.

FALLAIZE, E. N.: *Origins of Civilization*. Benn's Sixpenny Library.

FELLOWS, ARNOLD: *The Wayfarer's Companion*. Oxford University Press. 1937. 306 pp. 6s.

HALL, H. R.: *The Ancient History of the Near East*. Methuen.

HARRISON, H. S.: *From Stone to Steel*. Horniman Museum. 1936. 98 pp. 6d.

HOLMES, T. RICE: *Ancient Britain*. Oxford University Press. 1936. 784 pp. 36s. net.

KENDRICK, T. D., and HAWKES, C. F. C.: *Archaeology in England and Wales*. Methuen.

MACALISTER, R. A. S.: *Ancient Ireland*. Methuen.

MYERS, J. L.: *The Dawn of History*. Thornton Butterworth. 1933. 256 pp. 2s. 6d.

QUENNELL, MARJORIE, and C. H. B.: *Everyday Life in the Old Stone Age*. Batsford. 122 pp.

Everyday Life in the New Stone, Bronze, and Early Iron Ages. Batsford. 120 pp.

SMITH, REGINALD A.: *Flints—A Manual for Beginners*. British Museum. 1926. 6d.

WINDLE, B. C. A.: *Remains of the Prehistory Age in England*. Methuen. 1904. 320 pp. (O.P.)

MORE ADVANCED BOOKS ON SPECIAL SUBJECTS

BUDGE, E. A. W.: *Dwellers on the Nile*. Religious Tract Society. 360 pp. 1926. 7s. 6d.

Babylonian Life and History: Religious Tract Society. 1925. 272 pp. 7s. 6d.

Introductory Guide to the Egyptian Collections in the British Museum. 1930. 460 pp. 2s. 6d.

CAPPER, D. P.: *The Vikings of Britain*. Allen and Unwin. 220 pp.

CHEWINGS, CHARLES: *Back in the Stone Age*. (Deals with the Australian Aborigines.) Angus and Robertson, Sydney. 162 pp.

COX, R. HIPPISEY: *The Green Roads of England*. Methuen. 10s. 6d.

CUNNINGTON, R. H.: *Stonehenge and its Date*. Methuen. 5s.

DELAPORTE, L.: *Mesopotamia—The Babylonian and Assyrian Civilizations*. Kegan, Paul. 1925. 371 pp. 16s.

GRINSELL, L. V.: *The Ancient Burial Mounds of England*. Methuen. 240 pp. 12s. 6d.

HANCOCK, P. S. P.: *Mesopotamian Archaeology*.

KENDRICK, T. D.: *The County Archaeologies*. Edited by T. D. Kendrick. Methuen. Each 10s. 6d.

1. *Middlesex and London*. By C. E. Vulliamy.

2. *Kent*. By R. R. Jessup.

3. *Berkshire*. By Harold Peake.

4. *Somerset*. By D. O. Dobson.

5. *Cornwall*. By H. O'Neill Hencken.

6. *Yorkshire*. By F. and H. W. Elgee.

7. *Sussex*. By Cecil Curwen (12s. 6d.).

MUNRO, R.: *The Lake Dwellings of Europe*. Cassell. 1890. (O.P.)

PETRIE, SIR FLINDERS: *The Hill Figures of England*. Royal Anthropological Institute. 1926. 5s.

PETRIE, W. M. F.: *A History of Egypt*.

SHORTER, ALAN: *Everyday Life in Ancient Egypt*.

SYNOPSIS CHARTS OF PREHISTORY

B.C.	GEOLOGICAL PERIOD	NAME OF CULTURE	DISTINGUISHING FEATURES
(?) 50,000	Pliocene	Eolith.	Flint implements found in gravel beds of the river drift, and occasionally elsewhere. The flints are not flaked and, in the main, rough chippings from flint nodules, hardly to be distinguished from flaking by natural process. Eolith man shows no other signs of civilization
(?) 40,000	Pleistocene	Lower Palaeolithic	Roughly flaked flint implements, particularly those manufactured from the core of the nodule rather than the flakes, the hand axe, or coup de poing. Strepy implements usually retain the original crust. These are found in the gravel beds of the Somme, together with fossil remains of the sabre-toothed tiger and prehistoric elephant
(?) 20,000	"	Strepy	Still roughly flaked implements made from the core, but showing greatly improved workmanship. The hand-axe oval or pear-shaped, remains the predominant weapon, but roughly-worked scrapers are also found
(?) 15,000	"	Chelles	Similar implements to those of the Chelles type but of finer workmanship, a growing sense of symmetry and a truer edge
(?) 10,000	"	St. Acheul	Men of the Neanderthal type, dwelling in caves, as well as camping on the river banks as did men of all the preceding cultures. Few hand-axes are found, rather, implements are manufactured from flakes struck off the flint nodule, such as spear heads, scrapers, and knives. It may have been men of this culture who inhabited Kent's Cavern, Torquay, and other caves in Britain
(?) 15,000	"	Mouster	Beautifully manufactured flint implements, including lance heads, arrow heads, scrapers, etc. Bone needles appear for the first time. Traces of this culture, including figures of reindeer worked in bone, have been found near the Cresswell Crags, Derbyshire
(?) 15,000	"	Upper Palaeolithic	Upper Palaeolithic
(?) 15,000	"	Solutre and Aurignac	Beautifully manufactured flint implements, including lance heads, arrow heads, scrapers, etc. Bone needles appear for the first time. Traces of this culture, including figures of reindeer worked in bone, have been found near the Cresswell Crags, Derbyshire
(?) 15,000	"	La Madeiran	The highest degree of culture known in Palaeolithic days. Well-flaked flint implements of every kind, and many of bone also. Religion and art apparently well developed, as shown by coloured wall paintings in caves
3000-4000	Britannia	Britannia	Coming of Neolithic man Flint implements made from core and flakes The first of the trackways along the line of the Pilgrim's Way and Icknield Way
4000-3000	Britannia	Britannia	Advance of Neolithic man along the chalk downs to Salisbury Plain, and westward and northward over the high ground First of the stone circles Earliest hill-top fortresses Flint implements, including axes, spear heads, borers, and scrapers, a few being ground and polished
3000-2000	Britannia	Britannia	Height of Neolithic civilization The Long Barrows Ground and polished flint implements of every kind, including beautifully fashioned arrow heads. Some picks and other implements of horn
	Egypt	Egypt	"Predynastic" period Egypt divided into a number of warring kingdoms, each well advanced in civilization. Flint implements and Stone Age culture Foundation of the first dynasty by King Menes. Writing invented. Beginning of national organization, and in introduction of metal The "Old Kingdom" (2900-2400) Pyramids of Gizeh Capital of the Pharaohs at Memphis
	Greece and Crete	Greece and Crete	Neolithic man already well established Well-fashioned flint implements, including some ground and polished Peak of Neolithic civilization Early Bronze Age in Crete Rudely-fashioned swords; art of decoration at least known in its rudiments
	India and the Far East	India and the Far East	Neolithic civilization well developed Highly-developed civilization in India, with well-built houses and great skill in art (Mohenjodaro excavations) Chalcolithic (Indus) culture Indus civilization at its height; introduction of bronze
	Elsewhere	Elsewhere	Assyria Early Bronze Age. Implements of rough manufacture, but finer using artistic

WAR AND DEFENCE

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STUDY GUIDES

DEFENCE

INTRODUCTION

THE armed forces of any nation are to-day known as its defence forces, for, at a time when the world has attained to a high degree of civilization, and public opinion has an influence which is even more potent than that exercised by writers, no nation desires to be stigmatized as a wanton aggressor or even as a possible aggressor. Yet the fact that attack is often the best form of defence makes it necessary for even the most peace-seeking nation to possess weapons designed solely with a view to their attacking properties. Therefore, the student of defence must also become the student of attack and of war in all its phases.

The history of defence has its beginning in the dawn of CIVILIZATION, for one of man's first problems was to defend himself against the wild animals which were so much better armed by nature than he was himself. Hence we have the invention of the SLING, SPEAR, and SWORD. But men were not content merely to defend themselves against wild animals, they began to fight among themselves and were forced to defend themselves against the deadly weapons they had invented. So came the SHIELD and the HELMET, and other parts of ARMOUR, and, on a larger scale, the FORT. There was, of course, a corresponding perfection of attacking weapons. The CHARIOT, and mounted man carrying a LANCE or heavily armed CAVALRY, proved irresistible until the organization of bowmen and spearmen together made it possible to break the headlong rush of the attackers. The fort or CASTLE provided a much more difficult problem, to which the only answer was a SIEGE, sometimes shortened with the aid of the BATTERING RAM, until the invention of GUNPOWDER. Gunpowder was first used only with primitive CANNON or ARQUEBUS, but later was used for GUNS which could be fired from the hand or shoulder, e.g. the matchlock and flintlock among other kinds of MUSKET and the BLUNDERBUSS and primitive PISTOL. The musket remained the chief weapon of war for many generations but was, in the nineteenth century, superseded by the breech-loading RIFLE, an improvement which was made possible by a corresponding improvement in the type of BULLET and EXPLOSIVE. It was at this time, too, that the BOMB proved its value in close fighting against massed opponents. The muzzle loaded cannon also became obsolete and was replaced by many types of big-gun generally classed together as ARTILLERY or ORDNANCE. The guns varied in size and were supplied with AMMUNITION generally known as SHELLS, which were adapted to the type of work they were expected to perform. So some shells contained SHRAPNEL, others a high explosive such as T.N.T. This latter was used against trenches which had to be resorted to in order to escape the enormous loss of life arising from steady and concentrated rifle-fire. This fire was later reinforced by that of the quick-firing MACHINE GUN, an early British type being the GATLING GUN, and for close attacking the REVOLVER was valuable.

There had to be some answer to this predominance of fire strength or armies would be rendered immobile. It came with the introduction first of the ARMoured

CAR, and secondly of the TANK which could surmount or break through most obstacles. Further development of the machine-gun and the improvement of ammunition through the study of BALLISTICS led to the introduction of the anti-tank gun, which considerably reduced the value of the tank as a weapon of attack. The value of one modern attacking weapon, however, the AEROPLANE, has not yet been neutralized through the discovery of a proper defensive weapon. The Zeppelin and other forms of DIRIGIBLE offered a large target and were filled with highly inflammable gas, hydrogen. The tracer bullet spelt doom to them. The only real reply to one AIR RAID, however, is another air raid. In Britain the ROYAL AIR FORCE attends to air defence in the main. During the present century nations at war have resorted to the use of POISON GAS. It is, however, a weapon which has been condemned as inhuman, and it has been renounced by all civilized nations. But fear of it is ever present and all nations have vast stocks of gas-masks.

The problem of defence as considered from the aspect of organization has its historical basis. Even from the earliest times there was some attempt at the organization of armed forces. The Romans divided their army into COHORTS and LEGIONS, whilst the Emperor had his own PRAETORIAN GUARD. In England the first army was organized by Alfred and was known as the FYRD. It persisted until the introduction of the FEUDAL SYSTEM by William the Conqueror. The Middle Ages saw the rise of two bodies of professional soldiers in the Near East, the JANIZARIES, who served the Ottoman Turks, and the MAMELUKES, who established a dynasty in Egypt. In Europe professional fighting men who dedicated their lives to the Conquest of Palestine were the KNIGHTS HOSPITALLERS OF ST. JOHN and the TEMPLARS. The order of KNIGHTHOOD as established in almost every country of Europe was one which owed war service to the feudal overlord. The knights were heavily armed and for a long period the CAVALRY was the main attacking force in the early medieval armies. The knights were served by Esquires or squires, who also belonged to the order of CHIVALRY, but were too young to be made knights. The cavalry were supported by INFANTRY such as the YEOMEN OF THE GUARD, the only medieval body of men which remains to-day.

The ARMY as we know it really dates from the time of James II, who formed his forces into REGIMENTS distinguished by a uniform. Much of the material which he introduced into his army had been formed during the REBELLION OF 1642, when the opponents were known as CAVALIERS and ROUNDHEADS. The army is formed of divisions which are made up of BRIGADES. Regiments are formed of BATTALIONS, etc.

Recruitment for the British Army has nominally always been voluntary except during a part of the WORLD WAR when CONSCRIPTION was introduced. Private citizens did at one time suffer from the activities of the PRESS GANG, which seized recruits both for army and navy. The standing army has a reserve which may come under the headings of YEOMANRY, VOLUNTEERS or TERRITORIAL ARMY. The ranks in both a reserve and professional army are the same, GENERAL, COLONEL, SERGEANT, etc. Most of these names have been used in the British Army for centuries, though the use of certain ranks as CORNET and ENSIGN has been discontinued of recent years.

HISTORICAL CONSIDERATION

The study of defence to be adequate must take in the consideration of the history of nations, including wars and even single battles, and the lives of Kings, Generals

and leaders. This historical study shows us defence in action. Without it we cannot appreciate the influence which may be exerted by discipline, enthusiasm, terrain and tactics and the numerous *imponderabilia* which have from time to time brought the best conceived schemes to frustration. The labours of ALFRED, who organized Britain against the Danes, of WILLIAM I, who introduced the FEUDAL SYSTEM, of HENRY II, who introduced scutage, of JAMES II, of MARLBOROUGH, WELLINGTON, etc., not only affected the general course of history, they had long-lasting effects upon the methods of defence employed in Britain. It is not only English history which must be studied. CAESAR, HANNIBAL, ALEXANDER, XERXES, CHARLEMAGNE, MAXIMILIAN, SIGISMUND, LOUIS XIV, CONDE, ATTLA, GRANT, GENGHIS KHAN, NAPOLEON, and numerous others by their handling of war contributed to the success or failure of their armies. Battles such as MARATHON and HASTINGS have been decisive in themselves. At other times a long campaign has been necessary. It is clear that though numbers are often decisive, discipline and training may be even more important, hence the rise of military races forced for reasons of defence to institute universal military service. These have existed at all times, the SPARTANS, RAJPUTS, COSSACKS, and ZULUS are examples.

NAVAL DEFENCE

Naval warfare can hardly be said to have begun with the early CORACLE, which was used merely as a means of transporting armed men. Naval warfare, as such, may be considered to have begun in the Mediterranean. Egypt and Phoenicia were naval powers and introduced the GALLEY, which was driven by oars and sails. Those with two banks of oars were known as BIREMES, those with three banks as TRIREMES. Often the galley had a curved and protruding prow known as a RAM, with which the enemy ship could be rammed and holed. In warfare the Greeks used a burning substance known as GREEK FIRE which was poured from a tower on to the deck of the enemy. The galley remained the principal warship in the Mediterranean until DON JOHN OF AUSTRIA defeated the Turks at Lepanto in the sixteenth century. Though there had often been naval engagements between English and French ships in the Channel before the reign of Henry VIII, they were merchant ships carrying soldiers and the ships usually grappled immediately for hand to hand fighting. Sometimes, however, one would stand off and conduct a running fight, the bowmen firing arrows, and a SLING which threw heavy stones being used in an attempt to hole the enemy. It was HENRY VIII who first introduced the Battleship which had castles erected in the forepeak for men firing ARQUEBUSES and was fitted to carry bombards, the only form of ORDNANCE then used as permanent armament. It may be said that the NAVY came into being at this time. At the end of the sixteenth century the seas and oceans were infested with PIRATES, BUCCANEERS, and PRIVATEERS, which, with more or less open disregard of law, waged indiscriminate war on merchant shipping. This state of affairs lasted for a century and continued to a lesser extent into the eighteenth and nineteenth centuries. It was the defeat of the ARMADA, the greatest navy yet known, which established England as a naval power. The decisive character of that defeat was to a great extent due to the use of FIRESHIPS, which were a form of tactics which did not become obsolete until the introduction of steam. In spite of a decline in naval power during the Stuart period due to the parsimony of Parliament, there were advances in design, and the FRIGATE and variously other rated BATTLESHIPS

made their appearance. A notable advance in SHIPS and SHIPBUILDING came with the discovery of steam, though sail was not completely abandoned until the end of the nineteenth century. Steam propulsion allowed for an increase in armament, and a radical change in design, so that ships rarely indulged in close combat and the importance of MARINES declined. SAILORS on most ships taking charge of the defence. The invention of certain weapons of attack led to variation in the design of ships. The discovery of the TORPEDO led to the introduction of TORPEDO BOATS which were later followed by (Torpedo-boat) DESTROYERS. The SUBMARINE was followed by the invention of the submarine-chaser, a variety of DESTROYER, the MINE in various forms including the depth-charge, and the PARAVANE, though this was also an anti-mine device, and the Q SHIP. The MONITOR, first used during the American Civil War, lost much of its value when minefields could be laid scientifically, though the introduction of the mine-layers was balanced by the introduction of the mine-sweepers. The great advance in GUNNERY, to some extent due to the invention of RANGE-FINDERS, led to the introduction of larger and larger Battleships which, owing to their size and armament, are accompanied by CRUISERS of greater speed. The FLEET has many other elements, but none more important to-day than the AIRCRAFT CARRIER, which was the Navy's answer to the introduction of the aerial BOMB into naval warfare. The addition of the anti-aircraft gun to the forms of ARTILLERY available has also been made use of by the Navy.

In general matters of armament must also be considered in relation to treaties, *ententes* and alliances. INTERNATIONAL LAW forbids the use of POISON GAS and provides for the treatment of PRISONERS OF WAR and the RED CROSS and similar organizations. Such treaties as that for the RENUNCIATION OF WAR and those on DISARMAMENT and the limitation of ARMAMENTS, some of which arise out of the LEAGUE OF NATIONS, some out of treaties as those of VERSAILLES and TRIANON, must also receive consideration.

THE STUDY OF DEFENCE

The value to be derived by students from examination of Military History depends not so much upon careful study of facts and operations of war, nor upon accurate knowledge of the sequence of events, but upon tracing out the underlying principles—their observance or breach—which led to success or failure, and in discovering how far changes in modern armament, equipment, means of transportation and industry will increase, modify, or neutralize their effect.

Certain of these principles, notably concentration of force and economy of force, are directly opposed, and only a commander who can achieve a correct balance between them will succeed.

From a study of past military history, the student can learn how the great commanders of the past maintained a steady course between conflicting principles.

RANK IN NAVY, ARMY, AND AIR FORCE

The system upon which depends the seniority of commissioned officers, warrant officers and non-commissioned officers of the Royal Navy, Army, and Royal Air Force when working together, is known as "relative rank." Relative rank is not affected by any local rank conferred by a colonial government.

Commissioned officers of the three Services of equal rank (see table below) take precedence according to the date of appointment to their present rank—if the

dates of appointment are the same, the Naval Officer ranks senior to the Army or Air Force Officer, and the Army Officer as senior to the Royal Air Force Officer.

Officers of the Royal Marines rank, according to seniority, with officers of the Army of the same title, and for ceremonial purposes in Indian waters and territory, officers of the Royal Indian Navy rank with, but immediately after, officers of the Army of corresponding rank and seniority.

TABLE OF RELATIVE RANK

ROYAL NAVY	ARMY	ROYAL AIR FORCE
Admiral of the Fleet	Field-Marshal	Marshal of the Royal Air Force
Admiral	General	Air Chief-Marshal
Vice-Admiral	Lieut.-General	Air Marshal
Rear-Admiral	Major-General	Air Vice-Marshal
Commodore, 1st and 2nd Class	Brigadier	Air Commodore
Captain	Colonel	Group Captain
Commander	Lieut.-Colonel	Wing Commander
Lieut.-Commander	Major	Squadron-Leader
Lieutenant	Captain	Flight Lieutenant
Sub-Lieutenant	Lieutenant	Flying Officer
Acting Sub-Lieutenant Com- missioned Officer from War- rant rank	Second-Lieutenant	Acting Pilot Officer (but junior to Navy and Army rank)

A Brigadier reverts to Colonel's rank on completion of appointment; Colonels must retire after five years, and General Officers after three years of unemployment

ROYAL NAVY	ARMY	ROYAL AIR FORCE
Warrant Officers, R.N. and R. Marines (senior to Army): } Midshipman (junior to Army) }	Warrant Officers (Class I)	Warrant Officers
No equivalent	Warrant Officers (Class II)	The rank is obsolescent
Chief Petty Officer	N.C.O.'s ranking with Reg. Qtr.-Mstr. Sergeant	Flight-Sergeant
Petty Officer	N.C.O.'s ranking with Sergeants	Sergeant
Leading Seaman (junior to Army)	Corporal or Bombardier	Corporal

READING LIST

DEFENCE

MILITARY, NAVAL, AND AIR

GENERAL BOOKS

- ANDERSON, CAPTAIN J. H.: *Précis of the Great Campaigns, 1789-1815. Maps and Plans.* Rees. 142 pp. 6s. 1907.
Russo-Japanese War to the Battle of Liao-Yang. Rees. 2 vols. 1909.
- BIRD, MAJOR-GENERAL W. D.: *Direction of War.* Cambridge U.P. Maps. 317 pp. 10s. 6d. 1920.
- COLE, MAJOR D. H.: *Changing Conditions of Imperial Defence.* Sifton Praed. 183 pp. 6s. 6d. 1930.
- COLE, MAJOR D. H., and PRIESTLEY, MAJOR E. C.: *Outline of British Military History, 1644-1936.* Maps. Sifton Praed. 448 pp. 12s. 6d. 1936.
- FOCH, MARSHAL: *Precepts and Judgments.* Chapman. 359 pp. 3s. 1919.
- FORTESCUE, HON. SIR J. W.: *The Empire and the Army.* Maps. Cassell. 337 pp. 4s. 6d. 1930.
History of the British Army. Macmillan. 13 vols. 1930. Set of 13 vols. 126s.
- FULLER, GENERAL J. E. C.: *The History of Imperial Defence, 1588-1914.* Sifton Praed. 102 pp. 3s. 6d. 1926.
- HART, CAPTAIN B. LIDDELL: *The Decisive Wars of History.* Maps. Bell. 242 pp. 12s. 6d. 1929.
- HENDERSON: *The Science of War.* 7s. 6d.
- HODGES, H. W., and HUGHES, E. A.: *Select Naval Documents.* Cambridge U.P. 2nd ed. 227 pp.
- MAHAN, A. T.: *Sea Power.* Little Brown (Boston). 2 vols. 1905.
- PARGITER, MAJOR H., and EADE, MAJOR H. G.: *The Army and Sea Power.* Benn. 229 pp. 10s. 6d. 1927.
- SPAIGHT, J. M.: *The Beginnings of Organized Air Power.* Longmans. 317 pp. 17s. 6d. 1927.
- SYKES, SIR F. H.: *Aviation in Peace and War.* Arnold. 139 pp. 8s. 6d. 1922.

THE WORLD WAR

- BARKER, WING-COMMANDER W. R.: *Strategy and Tactics of Air Fighting.* 6s.
Basic Principles of Air Warfare. 7s. 6d.
- BUCHAN, COLONEL J.: *History of the War.* T. Nelson. 4 vols. each 25s. 1921.
- BUCHANAN, CAPTAIN: *Three Years of War in East Africa.* Murray. 247 pp. 12s. 1919.

- CALLENDER, G.: *Sea Kings of Great Britain.* Longmans. 2nd ed. 2 vols. 1917.
- CHURCHILL, W. S.: *The World Crisis.* Thornton Butterworth. 6 vols. 21s. 1923-31.
The World Crisis Eastern Front. Thornton Butterworth. 831 pp. 30s. 1931.
- DEWAR, G. A., and BORASTON, COLONEL.: *Sir Douglas Haig's Command.* Constable. 21s. 1922.
- FULLER, GENERAL J. F. C.: *On Future Warfare.* Sifton Praed. 390 pp. 12s. 6d. 1928.
- GERMAIN, V.: *The Mechanization of War.* Sifton Praed. 253 pp. 8s. 6d. 1927.
- GWYNNE, MAJOR-GENERAL SIR C. W.: *Imperial Policing.* Macmillan. 366 pp. 10s. 6d. 1934.
- HART, CAPTAIN B. LIDDELL: *The World War.* Maps. Faber and Faber. 635 pp. 8s. 6d. 1934.
- KLUCK, GENERAL VON: *The March on Paris.* Arnold. Maps. 175 pp. 12s. 6d. 1920.
- LUDENDORFF, E.: *Concise Memoirs.* Maps. Hutchinson. 336 pp. 12s. 6d. 1933.
- MARTEL, LIEUTENANT-COLONEL G.: *In the Wake of the Tank.* Sifton Praed. 257 pp. 12s. 6d. 1935.
- ROBERTSON, SIR W.: *Soldiers and Statesmen.* Cassell. 2 vols. 50s. 1926.
- SPEARS, GENERAL E. L.: *Liaison.* Maps. Heinemann. 597 pp. 25s. 1930.
- YPRES. By a German official. 5s.

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- BURTON, COLONEL: *Napoleon's Campaign in Italy, 1796.* Allen. 146 pp. 7s. 6d. 1912.
- CHURCHILL, W. S.: *Marlborough—His Life and Times.* Harrap. New rev. ed., 1934. 2 vols. Vol. 1, 25s.; vol. 2, 25s.
- GUEDALLA, P.: *Duke of Wellington.* Hodder and Stoughton. Maps. 523 pp. 25s. 1931.
- HENDERSON, COLONEL G. F. R.: *Stonewall Jackson.* Longmans. 737 pp. 21s. 1936.
- IRONSIDE, GENERAL: *Tannenberg.* Maps. Blackwood. 306 pp. 15s. 1925.
- KNOWLES, D.: *The American Civil War.* Oxford U.P. 223 pp. 7s. 6d. 1926.
- MAURICE, MAJOR-GENERAL SIR F.: *Robert E. Lee.* Constable. 309 pp. 7s. 6d. 1925.
- RISE, J. H.: *Life of Napoleon.* 15s.
- TAYLOR, F.: *The Wars of Marlborough.* 50s.
- WOOD, C. H., and EDMUNDS, BRIGADIER-GENERAL: *The Civil War in the United States.* 21s.
- WHITTON, LIEUTENANT-COLONEL: *Moltke, 1870.* Constable. 337 pp. 18s. 1921.

LAW AND GOVERNMENT

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STUDY GUIDES

ENGLISH PRIVATE LAW

The words in capital letters throughout this study guide are the titles in the Law and Government (Index No. 2) to which reference should be made for complete information.

THE LAW OF CONTRACTS AND TORTS

THE references in the Law and Government Index to the law of contracts will be found principally under CONTRACT. Other titles of importance in this connection are AGENT and AGENCY, LANDLORD AND TENANT, MASTER AND SERVANT, APPRENTICESHIP, CONTRACT OF, and MINOR. Torts are fully classified under TORT. The degrees of damages which may be awarded for torts and breaches of contract are listed under DAMAGES.

THE CRIMINAL LAW

A full list of all the graver crimes is given under CRIME; a further long list appears under FELONY and a shorter one under MISDEMEANOUR. Where information is sought as to the punishment for a particular crime, the most useful title to consult will probably be PENAL SERVITUDE, which gives a full list of crimes for which this penalty may be inflicted. Imprisonment other than penal servitude is dealt with under IMPRISONMENT, and the death penalty under CAPITAL PUNISHMENT. Further material under this heading will be found under ARREST, CRIMINAL LAW, INDICTABLE OFFENCES, and WARRANT. The law relating to young delinquents will be found under CHILD DETENTION and JUVENILE COURTS.

THE LAW OF PROPERTY, STATES AND PRIVATE ASSOCIATIONS

This group comprises the whole residue of English substantive law so far as it affects the private rights and duties of the citizen. It has not been found possible to classify any large part of the law of property under any single title, and accordingly each topic must be sought under its own title, e.g. EASEMENT, MORTGAGE, TRUST, WILL, etc. On the other hand, there are several important titles dealing with the law of states, e.g. ALIEN, BRITISH SUBJECT, BANKRUPT, CHILD, LUNATIC, MARRIED WOMAN, MINOR, PARENTS. Finally, the principal types of private associations are dealt with under BUILDING SOCIETIES, COMPANY (an important title, ranging over the whole field of company law), CO-OPERATIVE SOCIETIES and FRIENDLY SOCIETIES.

LEGAL PROCEDURE AND THE RULES OF EVIDENCE

In the case of this group, the best course for the student will be to go straight to the work itself, and read the articles on PROCEDURE, LEGAL and EVIDENCE. Further information on the rules of evidence may then be usefully sought under the title WITNESS in this index, and on procedure under WRIT and EXECUTION. It should be observed that the articles and index headings referred to in this section deal mainly with the procedure in civil as opposed to criminal causes; for criminal procedure, reference should be made to the Criminal Law section.

THE CONSTITUTION AND GOVERNMENT (CENTRAL AND LOCAL) OF GREAT BRITAIN

THE SOVEREIGN

The constitutional states, powers and duties of the Sovereign are dealt with principally under KING. The title CROWN is devoted mainly to the property and revenues appertaining to the royal estate; and THRONE deals with the succession. Some further information of interest will be found under ROYAL HOUSEHOLD.

PARLIAMENT

Under the title PARLIAMENT has been collected everything connected with the conduct of parliamentary debates and the passage of legislation in Great Britain. Matters relating to the composition and separate rights and powers of the two Houses of Parliament are dealt with under COMMONS, HOUSE OF and LORDS, HOUSE OF; and in connection with the lower House reference should also be made to the titles, CONSTITUENCY and ELECTIONS. The representation in the House of Commons of most of the counties of England, Wales and Scotland is given under the titles of the several counties.

THE CABINET, MINISTRY AND CIVIL SERVICE

The government of the United Kingdom is dealt with generally in this index under the headings CABINET, PRIVY COUNCIL and CIVIL SERVICE. But a great deal of additional information is to be found in the titles devoted to particular Ministers, especially PRIME MINISTER, CHANCELLOR OF THE EXCHEQUER and SECRETARY OF STATE. Particular attention is drawn to the last-mentioned title, as under this heading are collected references to all Ministers having the ranks of Secretary of State, e.g. the Home Secretary and the Foreign Secretary. Other titles of importance in this group are TREASURY and TRADE, BOARD OF. Some of the junior appointments in the Ministry will also be found under UNDER-SECRETARY OF STATE and UNDER-SECRETARY, PARLIAMENTARY.

THE COURTS OF JUSTICE AND THE LEGAL PROFESSION

A full list of English Courts appears in this index under the heading COURT. The relations between the various Courts, and the general scheme of which they are the component parts, will be found described in the article on Courts in Vol. II. Where information is required about any particular Court, the index should be consulted by reference to the distinguishing element in the name of the Court, e.g. SUMMARY JURISDICTION, COURT OF, CRIMINAL APPEAL, COURT OF. The three Divisions of the High Court are all dealt with under HIGH COURT OF JUSTICE. Some further material connected with the work of the inferior Courts will be found under MAGISTRATE, and see also CORONER. For the legal profession, see BAR, BARRISTER and SOLICITOR.

LOCAL GOVERNMENT

It has been found most convenient to distribute the subject-matter in this group under several titles, by reference to the various local authorities to which particular powers and duties are entrusted by law. The principal titles to be consulted are COUNTY, BOROUGH, COUNTY BOROUGH, DISTRICT and PARISH; also MAYOR,

ALDERMAN and SHERIFF. In connection with counties it should be noted that the county town is mentioned under the titles of most of the counties of England, Wales and Scotland. The administration of London is dealt with under LONDON COUNTY COUNCIL and LONDON, CITY OF.

THE POLICE

The whole of the information under this head will be found under POLICE, which includes within its scope the Metropolitan, County and Borough Police Forces.

THE REVENUE

A list of the principal sources of the national revenue is given under TAXATION. With regard to the administration of public moneys, reference has already been made to the titles TREASURY and CHANCELLOR OF THE EXCHEQUER. BUDGET, CONSOLIDATED FUND and NATIONAL DEBT should also be consulted. For local government taxation, see RATES.

INTERNATIONAL LAW AND RELATIONS

INTERNATIONAL LAW AND DIPLOMATIC USAGE

Most of the references to International Law are collected under the index heading INTERNATIONAL LAW. Some additional information about that part of International Law which relates to war and its effect on neutral states will be found under BELLIGERENTS and NEUTRAL. The other part of this group is concerned with ambassadors and other diplomatic representatives; see especially DIPLOMATIC REPRESENTATIVES and DIPLOMATIC PRIVILEGE.

THE LEAGUE OF NATIONS

There are a great many references to the League of Nations in this work, and most of these are collected in this index under LEAGUE OF NATIONS. It has not been thought practicable to give a list of all member-states; but a list is given of states which are ex-members of the League. The subject of Mandates under the League of Nations is fully dealt with under MANDATE, LEAGUE OF NATIONS. Among other international bodies the one most fully treated in this work is the Permanent Court of International Justice, indexed under INTERNATIONAL JUSTICE, PERMANENT COURT OF.

THE PEACE TREATIES

In view of the dominant part which the treaties of peace have played in post-War Europe, it has been thought desirable to give full reference to them in this index. The principal treaties will be found under their place-names, viz. VERSAILLES, LAUSANNE, TRIANON, NEUILLY and LOCARNO. Further references to them will also be found in the titles devoted to the particular countries affected by the provisions of these treaties. The title PLEBISCITE should also be consulted, as this contains references to several regions over which sovereignty has been determined by plebiscite since the War.

RELATIONS OF THE POWERS

The relations of various Powers with their neighbours are frequently referred to in this index. The references will be found under the titles of the countries concerned, and are usually introduced by the word "and," e.g. under UNION OF SOVIET SOCIALIST REPUBLICS, there are references "and Germany," "and Outer Mongolia," "and Persia," "and Poland," etc.

POLITICS AND POLITICIANS

POLITICAL CREEDS AND THEORIES

At no time in history have politics played a larger part in the thoughts and activities of mankind than at the present day. In many previous generations politics have for the most part been limited to the petty bickerings of party or personal rivalry; but in the twentieth century the whole scheme of established institutions all over the world has found itself challenged by conflicting doctrines, each of which calls mankind to a wholly new way of life and thought. To such a challenge no thoughtful person can remain indifferent; and even among those who are not adherents of any of these new creeds there has been aroused a lively and widespread interest in the theory and practice of government both in their own country and abroad. Such an interest demands something more on the part of a work like the *World Book*, than the mere inclusion of articles on SOCIALISM, COMMUNISM, FASCISM, and so forth. What many people want to know is not merely what these doctrines are, but how widely and to what extent they are actually being put into practice in the world to-day. In this index, therefore, an attempt has been made to answer this question by collating under convenient headings facts drawn from the articles on the various countries of the world. Thus, under DICTATORSHIP will be found a list of countries where governments of this nature are or have recently been in power; under STATE OWNERSHIP a large amount of information is collected from countries all over the world; and under FRANCHISE references are supplied to the voting rights of the citizens of some fifteen different nations. Other similar titles, to which the student is recommended to refer, are CORPORATIVE STATE, FEDERAL GOVERNMENT, LEGISLATURE, MONARCHY and PROPORTIONAL REPRESENTATION.

POLITICAL PARTIES IN GREAT BRITAIN AND THE DOMINIONS

Political parties in Great Britain are mentioned under their names. Those in the Dominions will be found under the name of the Dominion in question.

LEADING STATESMEN AND POLITICIANS

At this point occurs the border line between this index and the Biographical Index. All that is given in this index, therefore, is the names of the principal living statesmen (including sovereigns), with references to the articles directly devoted

to them; but allusions made to them in other articles are omitted. For these other allusions, see the Biographical Index.

LAWS OF ANTIQUITY

See GREECE (ANCIENT), ROME (ANCIENT) and ANGLO-SAXON LAW.

HISTORY OF POLITICAL IDEAS

The history of political ideas is the history of what men have thought about the political relations of man to man in society, and about the laws and forms of social organization which men have devised in order to regulate their communal life. It deals with the relation of man to the state, and with the state itself—the nature and legitimacy of its powers and authority and the kind of end or purpose which the state should subserve. Political philosophy is nourished on historical science, and has been profoundly affected by current ideas in both biology and psychology; while its relations with theology, with ethics, with philosophy in general, and latterly with economic history and theoretical economics, are of the closest kind.

The development of political ideas, unlike the development of ideas in the natural or biological sciences, is not a story of a gradually growing accumulation of tested "truth," to which each of the great political philosophers brings his contribution of ideas, adding to the general store, till at last an imposing edifice of certain and accepted political wisdom has been erected. To regard the subject in this way is to condemn all study of it to barrenness. Political thought should be studied, not against the background of eternity, but always against the social and historical background to which it properly refers. The absolutist doctrines, for example, of Thomas Hobbes, and that philosopher's glorification of authority, cannot be rightly understood or valued unless they are set in the context of contemporary European history—the horrors of the religious wars in France, ended only by the rise to the throne of a strong monarch, Henry of Navarre; the ruinous and barbarous Thirty Years War which devastated Germany; and the English Civil War that drove Hobbes himself into exile.

Political doctrines, as a general rule, embody what the logician would describe as contingent truth. They may, that is, in the age for which they were enunciated, be true. For any earlier or later time, untrue. To hold this view is to adopt an "instrumentalist" interpretation of political ideas; and such ideas are in truth both the products of a particular age and historical climate, and the instruments by which men seek to alter and modify, or preserve and extend, the system of relationships under which they live. An interesting example of the instrumental nature of political doctrines can be found in the history of the French religious wars of the sixteenth century. While a Catholic King was on the throne and while Catherine de Medici was the power behind it, the Protestant (Huguenot) party embraced the theory of popular sovereignty and their opponents the opposite doctrine. When the Huguenot leader, Henry of Navarre, became the legitimate

heir to the throne, the Catholics were quick to use the doctrine of popular sovereignty as an argument in favour of their candidate, the Duke de Guise, while the Huguenots lost no time in picking up and using the arguments which their enemies had just discarded. In the same way, both the great American parties have been fervent apologists for the doctrine of states' rights, but only while out of office; and both parties have with equal fervour argued for an expansion of federal authority at the expense of the separate states, but only while the federal power was in their own hands. It is, moreover, quite possible to believe that the doctrine of popular sovereignty was right when it was used to help Henry of Navarre to restore peace to France and ensure religious toleration, and wrong when it was made an excuse for fomenting civil strife; and that in the same way the affirmation of the doctrine of states' rights may, in certain conditions, be essential to the preservation of liberty in the United States, while in others, the expansion of federal authority, overriding the states, may be an essential condition for the maintenance of social justice. It is in the decision of such problems that the difficulties and the fascination of the study of political theory lie.

The history of political ideas opens, for us who have grown up in the culture of the West, with PLATO and ARISTOTLE, the two greatest political thinkers of Ancient Greece. Because their society was based on slavery, because their political unit was the city state, and because of the close marriage of ethics and politics in the Greek mind, much of their political message is inapplicable to modern conditions and obscure to the modern mind: their influence nevertheless, especially that of Aristotle on the Middle Ages and that of Plato on eighteenth- and nineteenth-century thought, has been enormous. These philosophers illustrate, moreover, two divergent types of mind in their approach to political thinking, types that have persisted in opposition to each other throughout the history of the subject: that of the idealist and that of the realist. For Plato's method was speculative, and his quest was ever for the ideal or perfect state; while Aristotle's method was scientific (he collected, analysed and classified all the constitutions of Ancient Greece in a work of which, unfortunately, only fragments have survived) and his search was not for the best, but for the best possible state.

Rome's legacy to political science lies most importantly in the system of ROMAN LAW and in the STOIC PHILOSOPHY which largely inspired it, and less importantly in the writings of some of her statesmen—men of letters such as CICERO and TACITUS. In medieval political theory, the dominant factors were FEUDALISM which was responsible for the contractual element in medieval political thought; the struggle between POPE and HOLY ROMAN EMPIRE which did much to stimulate the conceptions of authority and of the limitations which can justly be set upon it (see also Pope GREGORY VII and Emperor HENRY IV); and the growth of MONARCHY. This last had perhaps the most important effect of all on the later development of political thinking. In the Middle Ages the King was usually thought to be "under law," and law was judged by the moral content it enshrined. As the modern nation-states gradually took shape, as commerce grew and merchants began to claim royal protection on what were now coming to be regarded as the "king's highroads," it became important that the "king's peace" should be maintained and that the "royal writ should run" throughout the royal domains. The business of government was also becoming more expensive, and taxation in consequence more important. The monarch now needed administrators and crown lawyers,

and a new conception of law was formulated by these men who owed allegiance less to a general Christendom than to a personal and royal master. In this novel view, law was held to be the will of the Prince, and its validity was thought to depend not on its moral content, but upon the authority of the source by whom it had been promulgated.

Modern political thought opens with the writings of MACHIAVELLI, who performed the surgical operation of dissociating ethics from politics. The work of the German monk, LUTHER, as different as he was from the Florentine, also helped to secularize political thought and enhance the prestige of the monarch, by placing both temporal and ecclesiastical power, the latter withdrawn from the suzerainty of the Pope, in his hands. Figgis has justly remarked that "if there had been no Luther there would have been no Louis XIV." The sixteenth century was prolific in both wars and political controversy, and the Peace of Augsburg (see CHARLES V) though temporarily stabilizing the conflict between Catholics and Lutherans, made no provision for the followers of CALVIN and left the road open for the continuance of civil struggles in France, Holland and Scotland, where the Calvinist parties were strongly entrenched.

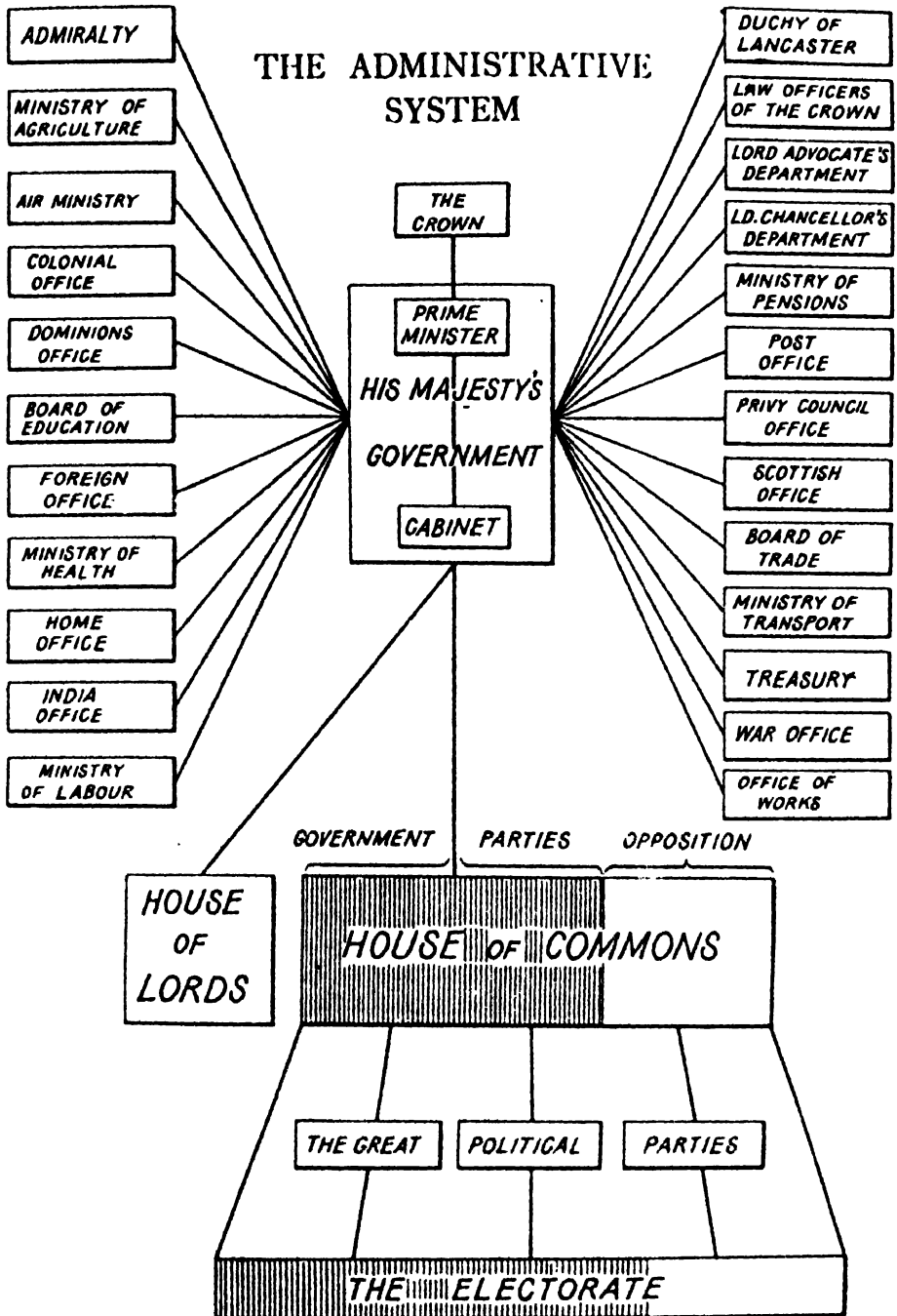
The arena of political struggles and the elaboration of political doctrines in the seventeenth century was transferred to England. The classic statement of the doctrine of the Divine Right of Kings by JAMES I had its counterpart in the writings of HOBBS, the apologists of the Parliamentary cause in the Civil War (see BRITISH HISTORY) and the LEVELLERS. After the episode of the Stuart Restoration, the Revolution of 1688 found another great English thinker to write its justification in LOCKE. In France this was the great Age of Louis XIV, which, as it drew to its close, saw the growth of a formidable literature of political protest, foreshadowing the critical writings of the eighteenth century. Whether we accept the view of TAINE that the literary compositions of the French "philosophic school" distilled the poison whose malignant effects were seen later in the outbreak of the French Revolution, or whether on the contrary we regard the eighteenth century as a period of genuine "enlightenment" which hastened the downfall of a corrupt civilization, we can have no two opinions as to the vigour, force and wit of the political writings of DIDEROT, MONTESQUIEU, ROUSSEAU and VOLTAIRE. The mood of the eighteenth century was optimistic. Their acceptance of the "blank sheet" theory of psychology, led them to believe in the equality and perfectability of man—a doctrine which provoked MALTHUS to write his pessimistic treatise on *Population*. The aim which the "philosophic school" set before itself was that of a humane and tolerant society, serving the "greatest good of the greatest number."

In England this slogan was naturalized by BENTHAM, who, while dismissing the French conception of "natural rights" as "nonsense upon stilts," arrived by another route—his UTILITARIAN philosophy—at a similar destination to that of the Natural Right School. His doctrines were continued and modified by John Stuart MILL, and have played an overwhelming role in the shaping of nineteenth-century England. A quite different attitude to French thought and to the French Revolution in particular was that of Edmund BURKE, the father of traditional conservatism, whose doctrine is well summed up in the phrase, "we should venerate where we are unable presently to comprehend."

The early nineteenth century saw everywhere a romantic reaction from the optimistic rationalism which had characterized its predecessor. The important

political thinkers of this period were the Utopian Socialists (see **SOCIALISM**), soon to be engaged in combat by **MARX** and **ENGELS**. Both of these men, the founders of scientific socialism or **COMMUNISM**, began as pupils of **HEGEL**, the Prussian philosopher whose idealization of the state profoundly influenced political thought in Oxford later in the century, in the works of Green, Bosanquet and Bradley. It is in the nineteenth century, too, that political thought begins to be modified by the introduction of concepts derived from biology, the most important being the **EVOLUTIONARY THEORY**; and by the work of general sociologists such as **COMTE** and **SPENCER**.

Political ideas in the world to-day present a confusing enough picture. Though what are known as "moderate views," the principles of Tory Democracy or of Liberalism, still claim the allegiance of many of us, especially in lands whose political tradition it is never to extract the uttermost farthing, to hold views bitterly but never to drive them home with logical extremism, the picture presented by politics in the world at large is one that has been aptly described by the phrase, "the stern struggle of ideologies." Vast political experiments are being made, both by the **BOLSHEVIKS** in Russia and by the democracy of the United States which with its **NEW DEAL** is attempting to transform the conditions of life of an entire sub-continent. **FASCISM**, in the totalitarian states, offers its alternative programme. Can we say, after traversing the long history of what men have thought about citizenship and the state, that we are any nearer political certitude?

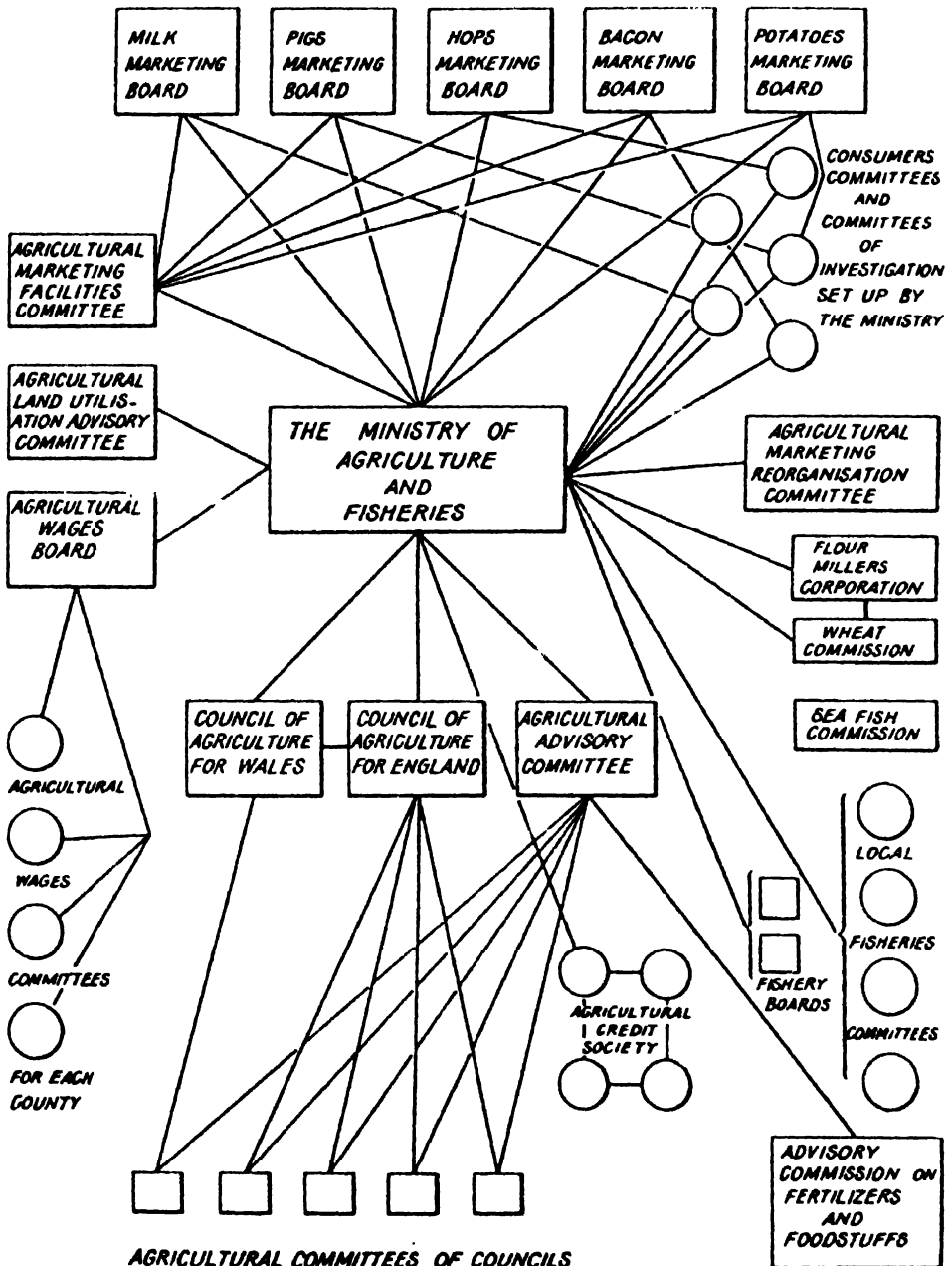


MINISTRY OF AGRICULTURE CHART

The diagrammatic chart of the Ministry of Agriculture and Fisheries shown herewith, complicated though it certainly seems, is by no means complete. It does not mention, for example, the association of the Ministry with Drainage and Catchment Boards, omits certain services under the Ministry's control (the Ordnance Survey and Kew Gardens being examples), and gives no indication of the inter-relations of the Ministry with the rest of the administrative system.

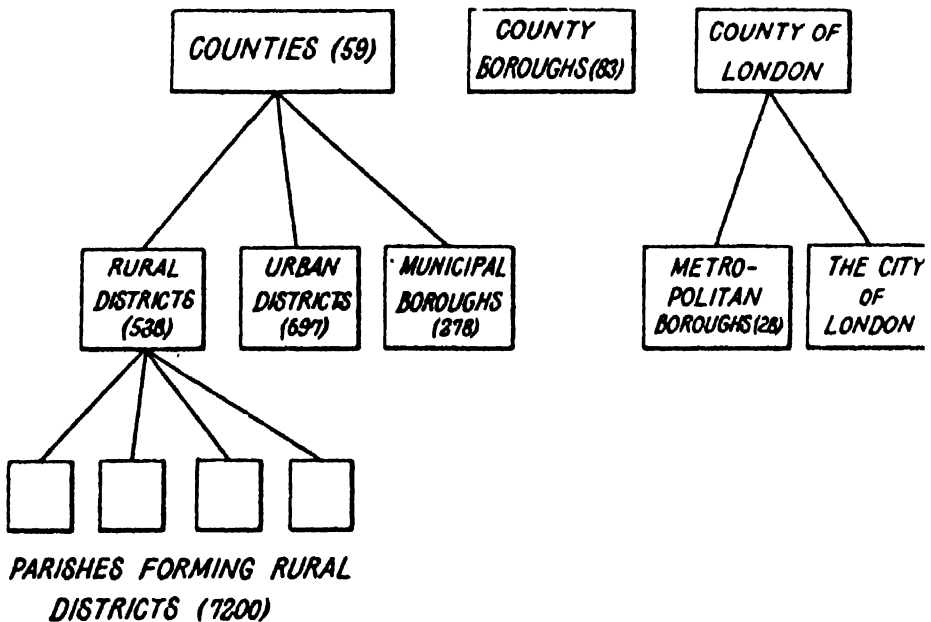
It illustrates rather two remarkable and recent developments in British administration: first, the growth of semi-autonomous bodies more or less loosely connected to a Department of State; and, secondly, the creation around particular Ministries of a network of advisory committees. Diversity of form in the organizations set up, and the association of as large a number as possible of professionally interested and technically competent citizens with the business of administration, are the essential characteristics of this new departure. How new it is can be seen by looking at the years in which the Acts authorizing the setting up of these Boards and Committees appeared on the Statute Book.

The Ministry itself, in its present form, dates only from the Ministry of Agriculture and Fisheries Act of 1919. By this Act were also set up the Councils of Agriculture for England and Wales, and the Agriculture Advisory Committee. The Marketing Board, the Marketing Facilities Committees, and the Consumers' Committees draw their statutory authority from legislation passed in 1931 and 1933. County Wages Committees and the Agricultural Wages Board for England and Wales were set up under the provisions of the Agricultural Wages (Regulation) Act of 1924. The Wheat Act of 1932 authorized the creation of the Wheat Commission and the Flour Millers' Corporation, both of which possess wide powers.



LOCAL GOVERNMENT

The units of the English Local Government system are the PARISH, which is itself a subdivision of the RURAL DISTRICT; the URBAN DISTRICT; and the MUNICIPAL BOROUGH: these three being in their turn subdivisions of the ADMINISTRATIVE COUNTY. The larger towns in a county area are withdrawn from the authority of the County Council and govern themselves as COUNTY BOROUGHs. London has also the status of a COUNTY, and comprises the CITY OF LONDON and the METROPOLITAN BOROUGHs.



ILLUSTRATING LOCAL GOVERNMENT AREAS

The numbers given in brackets indicate how many of each type of area exist at present in Britain.

QUESTIONS

GOVERNMENT

1. Describe the process by which a Bill becomes an Act of Parliament.
Pages 25, 481, 607, 3270.
 2. Distinguish between, and describe, constitutional laws and conventions of the constitution.
Pages 607, 1018.
 3. Describe the relationship between Local Authorities and the Central Government.
Pages 546, 607, 1212, 2550.
 4. What do you know of local government finance?
Pages 546, 1212, 2550, 3647.
 5. Describe the forms of social insurance that exist to-day in England.
Pages 194, 2194, 2941, 4330, 4516.
 6. What is the theory of the separation of powers? How far in your opinion does it correspond to the facts of the British Constitution?
Pages 607, 1018, 2836.
 7. The existence of an hereditary Upper Chamber is inconsistent with the representative democratic principles which underlie the British Constitution. Discuss.
Pages 607, 1153, 1814, 3270.
 8. The state to-day has become a public service corporation. Explain this statement.
Pages 87, 607, 1332, 924, 1948, 2194, 2788, 3321, 4275, 4330.
 9. Describe the organization and functions of either the Board of Trade or the Ministry of Agriculture or the Ministry of Transport.
Pages 87, 4263, 4275.
 10. Describe the origins and present functions of the Cabinet.
Pages 607, 678, 623, 2788.
-
11. "I would rather see England free than England sober." Comment on this view.
 12. Discuss the place of the Monarchy in the British Constitution.
 13. "The business of an Opposition is to oppose." Discuss.
 14. Examine the role played by political parties in the working of the British Constitution.
 15. Explain the relations of the Dominions and Great Britain as set forth in the Statute of Westminster.

LAW

JURISPRUDENCE

1. With what aspect of the Law is Jurisprudence concerned?

Page 2339a.

2. Describe the method of the metaphysical school of Kant.

Page 2339a.

3. How does John Austin define Law?

Pages 2339a, 2456b.

4. Criticize Austin's theory using Sir Henry Maine's arguments.

Page 2339a.

5. Which is the chief practical conclusion of Savigny's conception of Law?

Page 2339a.

6. Which is the only right accorded to the individual by Duguit?

Page 2339b.

7. Can it be said that the conception of the independent sovereign state is disappearing from the world?

Page 2339b.

ROMAN LAW

1. Give a short outline of the history of Roman Law.

Page 3746a; see also the article on Justinian.

2. Describe the character of *jus gentium*.

Page 3746b.

3. What are the parts of the *Corpus Juris Civilis*?

Page 3746b.

4. How long did Roman Law remain in force?

Page 3746b.

5. Where has Roman Law been adopted?

Page 3746b *et seq.*

INTERNATIONAL LAW

1. Define the term International Law.

Page 2203a.

2. Describe the development of International Law.

Page 2203a *et seq.*; see also the articles on Jurisprudence and Roman Law.

3. What is Exterritoriality?

Pages 1488b, 2203b.

4. Discuss the influence of war on International Law.

Page 2203b.

5. State the rules concerning prisoners of war.

Page 2203b.

6. Was International Law observed in the World War?

Page 2203b.

7. Discuss the rights of belligerents in normal warfare.

Page 2204a.

8. What happens to a neutral vessel which unsuccessfully attempts to run a blockade?

Page 2204a.

9. Discuss the organization of the League of Nations.

Page 2462a *et seq.*

10. Describe the functions of the Permanent Court of International Justice.
Page 2463a.

CIVIL LAW

1. Define the term Law.
Page 2456b.
2. Describe the difference between Substantive Law and Adjective Law.
Page 2456b.
3. Describe the history of English Law.
Pages 2456b *et seq.*, 3559b.
4. What is Common Law?
Page 2456b.
5. Discuss the importance of Common Law for the development of Law in England.
Page 2456b.
6. What is the function of the Judicial Committee of the Privy Council?
Page 2456b; see also Courts, English.
7. Discuss the influence of Equity on Law.
Pages 1445b, 2456b *et seq.*
8. Which Court based its decisions on Equity?
Pages 833b, 1445b, 2456b; also Courts, English.
9. Describe the functions of the different Courts in England.
Page 1055a *et seq.*
10. State the requirements of a Valid Contract.
Page 1020a *et seq.*
11. Are contracts in writing a separate class?
Page 1020a.
12. When can an offer not be revoked?
Page 1020a.
13. What are the consequences of Breach of Contract?
Page 1020b.
14. Discuss the principle of *equity of redemption*.
Page 2860b.
15. Is a bailiff entitled to break open the door of a house in order to carry out a distress?
Page 1212a.
16. Define the term debt.
Page 1140a.
17. Describe the process of enforcing a judgment debt.
Page 1140a *et seq.*
18. State the difference between a tort and a crime.
Page 4260a; see also the article on Crime.
19. Which are the legal remedies for a private nuisance?
Page 3101b.
20. What happens to a defendant who disobeys an injunction?
Page 2180a *et seq.*
21. Why can it be said that the distinction between real and personal property is of more historical than practical value?
Page 3560b.

CRIMINAL LAW

1. Define the term Crime.
Page 1069a.
2. Discuss the importance of Common Law for Criminal Law.
Page 1069a *et seq.*
3. How far is *criminal intention* an essential element in crimes?
Page 1069b.
4. Discuss the various classifications of crimes.
Page 1069b *et seq.*
5. What is the difference between Misdemeanour and Felony?
Pages 1516a, 2797a.
6. Distinguish between Libel and Slander.
Pages 2495a, 3978a.
7. What are the defences to an action for a libel?
Page 2495a.
8. Give an outline of the English system of Criminal Procedure.
Page 1070a *et seq.*; see also Court of Criminal Appeal, Jury.
9. Discuss the features of the English Jury System.
Page 2339b *et seq.*

READING LISTS

LAW AND GOVERNMENT

In this Reading List the books recommended in each section have, so far as possible, been arranged in order of length and difficulty, the shortest and most elementary work in each case being placed first.

LAW

ENGLISH LAW

GENERAL INTRODUCTIONS

- GELDART: Elements of English Law. 1931.
 RUEGG: Elementary Textbook on English Law. 1930.
 JENKS: Book of English Law. 1936.

HISTORY

- JENKS: Short History of English Law. 1934.
 POTTER: Historical Introduction to English Law and Its Institutions. 1932.
 CHALMERS and ASQUITH: Outlines of Constitutional Law. 1936.

LAW OF CONTRACTS AND TORTS

- SIR W. ANSON: Principles of the Law of Contract. 1929.
 SIR J. SALMOND: Law of Torts. 1929.
 SIR F. POLLOCK: Law of Torts. 1929.
 KENNY: Cases on Contracts. 1922.

CRIMINAL LAW

- HARRIS and WILSHERE: Principles and Practice of the Criminal Law. 1936.
 KENNY: Outlines of Criminal Law. 1933.
 Selection of Cases Illustrative of English Criminal Law. 1935.

REAL PROPERTY LAW

- TOPHAM: Law of Real Property. 1936.
 CHESHIRE: Modern Law of Real Property. 1937.

COMPANY AND PARTNERSHIP LAW

- TOPHAM: Principles of Company Law. 1934.
 SIR F. POLLOCK: Digest of the Law of Partnership. 1930.
 PALMER: Practical Book on Company Law. 1933.

LAW OF LANDLORD AND TENANT

- WILSHERE: Law Student's Landlord and Tenant. 1935.
 FOA: Outline of the Law of Landlord and Tenant. 1934.

MERCANTILE LAW

- DISNEY: Elements of Commercial Law. 1931.

- CHARLESWORTH: Principles of Mercantile Law. 1934.
 STEVENS: Elements of Mercantile Law. 1934.
 SMITH: Compendium of Mercantile Law. 1931.

EQUITY AND LAW OF TRUSTS

- POTTER: Introduction to the History of Equity. 1931.
 SNELL: Principles of Equity. 1935.
 HANBURY: Modern Equity. 1935.
 KEETON: Law of Trusts. 1934.
 UNDERHILL: Trusts and Trustees. 1926.

LEGAL PROCEDURE AND RULES OF EVIDENCE

- BLAKE, ODGERS: Principles of Pleading, Practice and Procedure in Civil Actions. 1934.
 COCKLE: Leading Cases on Evidence. 1932.
 PHIPSON: Manual of the Law of Evidence. 1935.

MISCELLANEOUS

- RINGWOOD: Principles of the Law of Bankruptcy. 1936.
 GINSON and WELDON: Epitome of Probate and Divorce Law. 1935.
 ROWLAND: Students' Income Tax. 1936.
 NEWPORT: Income Tax Law and Practice. 1936.
 DYMOND: Death Duties. 1934.
 DIAMOND: Master and Servant. 1932.
 STRAHAN: Law of Mortgages. 1925.

INTERNATIONAL LAW

- S. JACKSON: Manual of International Law. 1933.
 BRIERLEY: Law of Nations. 1936.
 SIR T. E. HOLLAND: Lectures on International Law. 1933.
 HALL: International Law. 1924.

JURISPRUDENCE

- HIBBERT: Jurisprudence. 1932.
 SIR F. POLLOCK: First Book of Jurisprudence. 1929.
 HOLLAND: Jurisprudence. 1924.
 SIR J. SALMOND: Jurisprudence. 1930.

ROMAN LAW

- HUNTER: Roman Law. 1934.

BUCKLAND: *Elementary Principles of Roman Private Law.* 1912.
Main Institutions of Roman Private Law. 1931.

BOOKS IN QUESTION-AND-ANSWER FORM

O'CONNELL: Questions and Answers on Contracts. 1935.
PADLEY: Questions and Answers on Torts. 1936.
FARRIN: Equity for Examinees. 1930.
PHILLIP: Questions and Answers on Root Property and Conveyancing. 1932.
ROGERS: Criminal Law for Examinees. 1936.
FARRIN: Civil Procedure for Examinees. 1935.
Evidence for Examinees. 1931.
GRIFFITH: Questions and Answers on Constitutional Law and Legal History. 1935.

GOVERNMENT

COMPARATIVE GOVERNMENT

MUNRO, W. B.: *The Governments of Europe.* Macmillan. 782 pp. 1933.
OGG, F. A.: *European Government and Politics.* Macmillan. 905 pp. 1934.
STRONG, C. F.: *Modern Political Constitutions.* Sidgwick and Jackson. 380 pp. 1930.

THE BRITISH CONSTITUTION

CENTRAL GOVERNMENT

BAGEHOT, W.: *The English Constitution* Many eds.
BASSETT, R.: *The Essentials of Parliamentary Democracy.* Macmillan. 259 pp. 1935.
DICEY, A. V.: *The Law of the Constitution.* Macmillan. 8th ed. 577 pp. 1915.
FINER, H.: *The British Civil Service.* Fabian Society. 96 pp. 1927.
The Theory and Practice of Modern Government. Methuen. 2 vols. 1932.
HEWART, LORD. *The New Despotism.* Benn. 307 pp. 1929.
ILBERT, SIR C.: *Parliament.* Thornton Butterworth.
JENNINGS, W. I.: *Cabinet Government.* Cambridge U.P. 484 pp. 1936.
LEES-SMITH, H. B.: *Second Chambers* 1923
LOW, S.: *The Governance of England.* Unwin. New ed. 320 pp. 1914.
LOWELL, A. L.: *The Government of England* Macmillan. New ed. 2 vols. 584 and 563 pp. 1931.
MUIR, RAMSAY: *How Britain is Governed.* Constable. 3rd ed. 335 pp. 1933.
OGG, F. A.: *English Government and Politics.* Macmillan. 2nd ed. 786 pp. 1936.
POLLARD, A. F.: *The Evolution of Parliament.* Longmans. 2nd ed. 459 pp. 1934.
ROBSON, W. A.: *The British Civil Servant.* Allen and Unwin.
Public Enterprise Allen and Unwin 416 pp. 1937

WHITE, E. M.: *The Teaching of Modern Civics.*

LOCAL GOVERNMENT

CLARKE, J. J.: *Local Government of the United Kingdom and the Irish Free State.* Pitman. 10th ed. 819 pp.
Outlines of Local Government. Pitman. 11th ed. 318 pp.
COLE, MARGARET: *Local Government for Beginners.* W.E.A. 90 pp. 1927.
FINER, H.: *English Local Government.* Methuen. 533 pp. 1933.
LASKI, H. J.: *A Century of Municipal Progress.* Allen and Unwin. 1935.
MORRISON, H.: *How Greater London is Governed.* Dickson and Thompson. 204 pp. 1935.
ROBSON, W. A.: *Development of Local Government.*
The Government and Misgovernment of London. Allen and Unwin.
SIMON, SIR E. D.: *A City Council from Within.* Longmans. 246 pp. 1926.
WEBB, S. and B.: *English Local Government.* Longmans 9 vols. 1906.

POLITICAL THOUGHT

BURNS, C. D.: *Political Ideals.* Oxford U.P. 358 pp. 1932
CECIL, VISCOUNT: *Conservatism.* Thornton Butterworth. 255 pp. 1911.
HOBHOUSE, L. T.: *Liberalism.* Thornton Butterworth. 254 pp. 1911.
The Metaphysical Theory of the State. Allen and Unwin. 156 pp. 1918.
LASKI, H. J.: *The Grammar of Politics* Allen and Unwin. 3rd ed. 672 pp. 1934.
Liberty in the Modern State. Faber and Faber. 256 pp. 1930.
The State in Theory and Practice. Allen and Unwin. 336 pp. 1935
LENIN, N.: *State and Revolution.* Many eds. 1917.
LORD, A. R.: *The Principles of Politics.* Oxford U.P. 308 pp. 1921.
MCLIVER, R. M.: *The Modern State.* Oxford U.P. 504 pp. 1926.
STRACHEY, J.: *The Theory and Practice of Socialism.* Gollancz 488 pp. 1936.
TAWNEY, R. H.: *Equality.* 2nd ed. 305 pp. 1931.

HISTORY OF POLITICAL IDEAS

GENERAL HISTORIES

COOK, T. I. *A History of Political Philosophy from Plato to Burke.* Pitman. 725 pp. 1937.
DOYLE, P.: *History of Political Thought* Cape. 335 pp. 1933.
DUNNING, W. A.: *History of Political Theories.* Macmillan. 3 vols. 1924.

- GETTELL, R. G.: *History of Political Thought*. Allen and Unwin. 511 pp. 1924.
- JANET, PAUL. *Histoire de la Science Politique*. Alcan (Paris). 1858. 2 vols. 608 and 779 pp. 4th ed. 1913.
- McILWAIN, C. H.: *The Growth of Political Thought in the West*. Macmillan. 417 pp. 1932.
- MURRAY, R. H.: *History of Political Science from Plato to the Present Day*. Heffer. 439 pp. 2nd ed. 1929.
- POLLOCK, SIR F.: *Introduction to the History of the Science of Politics*. Macmillan. Rev. ed. 138 pp. 1911.
- RIVERS, W. H. R. *Psychology and Politics*. Kegan Paul.

ANCIENT POLITICAL THOUGHT

- BARKER, E.: *Greek Political Theory. Plato and His Predecessors*. Methuen. 403 pp. 2nd ed. 1925.
- DICKINSON, G. L.: *Plato and His Dialogues*. Allen and Unwin. 228 pp. 1931.
- LIANG CHI-CHAO. *A History of Chinese Political Thought*. Kegan Paul.
- NETTLESHIP, R. L.: *Lectures on the Republic of Plato*. Macmillan. 364 pp. 2nd ed. 1901.
- PAL, R. B. *Hindu Philosophy of Law in the Vedic and post-Vedic Age*. Calcutta U.P. 1925.
- ZIMMERN, A. E.: *The Greek Commonwealth*. Oxford U.P. 471 pp. 5th ed. 1931.

MEDIEVAL POLITICAL THOUGHT

- CARLYLE, SIR R. W. and A. J.: *A History of Medieval Political Theory in the West*. Blackwood. 7 vols.
- GIERKE, OTTO. *Political Theories of the Middle Age*. Cambridge U.P. 197 pp. 1927.
- JENKS, E.: *Law and Politics in the Middle Ages*. Murray. 2nd ed. 352 pp. 1913.
- POOLE, R. LANE: *Illustrations of Medieval Thought and Learning*. S.P.C.K. 327 pp. 2nd ed. 1920.
- PULLAN, L.: *From Justinian to Luther*. Oxford U.P. 256 pp. 1930.

FROM THE REFORMATION TO THE SEVENTEENTH CENTURY

- ALLEN, J. W.: *History of Political Thought in the Sixteenth Century*. Methuen.
- BERNSTEIN, E.: *Cromwell and Communism*. Allen and Unwin. 287 pp. 1930.
- FIGGIS, J. N.: *Studies in the History of Political Thought from Gerson to Grotius, 1414-1625*. Cambridge U.P. 224 pp. 2nd ed. 1923.
- GIERKE, OTTO: *Natural Law and the Theory of Society, 1500-1800*. Ed. E. Barker. Cambridge U.P. 423 pp. 2 vols. 1934.

- GOOCH, G. P.: *Political Thought in England - from Bacon to Halifax*. Thornton Butterworth. 256 pp. 1915.
- English Democratic Ideas in the Seventeenth Century*. 2nd ed., rev. by H. J. Laski. Cambridge U.P. 315 pp. 1927.
- MURRAY, R. H.: *The Political Consequences of the Reformation*. Benn. 301 pp. 1926.
- VAUGHAN, C. E.: *Studies in the History of Political Philosophy*. Vol. 1. From Hobbes to Hume. Manchester U.P. 364 pp. 1925.
- VILLARI, P.: *The Life and Times of Machiavelli*. Benn. (Origin. p. 1878.) 7th Engl. ed. 1058 pp. 1929.

FROM THE EIGHTEENTH CENTURY TO TO-DAY

- ARIS, R. *History of Political Thought in Germany 1789-1815*. Foreword by G. P. Gooch. Allen and Unwin. 414 pp. 1936.
- BARKER, E.: *Political Thought in England from Spencer to the Present Day*. Williams and Norgate. 256 pp. 1915.
- BRAILSFORD, H. N.: *Shelley, Godwin, and Their Circle*. Williams and Norgate. 256 pp. 1911.
- Voltaire. Thornton Butterworth. 255 pp. 1935.
- BRINTON, CRANE: *English Political Thought in the Nineteenth Century*. Benn. 311 pp. 1933.
- DAVIDSON, W. L.: *Political Thought in England from Bentham to J. S. Mill*. Thornton Butterworth. 256 pp.
- DICKINSON, G. L.: *A Modern Symposium*. Allen and Unwin. 180 pp. 1930.
- FAGUET, F.: *Politicians and Moralists of the Nineteenth Century*. Benn. 317 pp. 1928.
- HALÉVY, ELIE: *The Philosophic Radicals*. Faber and Faber. (Origin. p. 1901.)
- HÖFFDING, HARALD: *Rousseau*. Yale U.P. 165 pp. 1930.
- JOAD, C. E. M.: *Introduction to Modern Political Theory*. Oxford U.P. 127 pp. 1924.
- LASKI, H. J.: *Political Thought from Locke to Bentham*. Williams and Norgate. 253 pp. 1925.
- The Rise of European Liberalism*. Allen and Unwin. 287 pp. 1936.
- MALLOCK, W. A.: *The New Republic*. Intr. Sir John Squire. Origin. pub. 1877, new edit. 1937. Michael Joseph. 288 pp.
- MARTIN, B. KINGSLEY: *French Liberal Thought in the Eighteenth Century*. Benn. 313 pp. 1929.
- MORLEY, JOHN: *Diderot and the Encyclopedists*. Macmillan. Rev. ed. 1921. 311 and 337 pp. 2 vols.

- STEPHEN, SIR LESLIE: *A History of English Thought in the Eighteenth Century*. Murray. 3rd ed. 466 and 469 pp. 1902.
- The English Utilitarians. Bentham to Mill. Duckworth. 3 vols 1900.
- RUGGIERO, GUIDO DE: *The History of European Liberalism*. Oxford U.P. 476 pp. 1927.
- VAUGHAN, C. E.: *The Political Writings of Jean Jacques Rousseau*. Cambridge U.P. 516 and 577 pp. 2 vols. 1915.
- Studies in the History of Political Philosophy*. Vol. 2. From Burke to Mazzini. Manchester U.P. 339 pp. 1925.
- WICKWAR, W. H.: *Baron D'Holbach*. Allen and Unwin. 253 pp. 1935.

GENERAL ECONOMICS, MONEY AND BANKING

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The subject matter of this section is classified in Sectional Index number 3.

STUDY GUIDES

ECONOMICS AND INDUSTRY

THE laws of economic science are statements summarizing our observations of human activity in a particular sphere:—that in which men earn their income and spend it. And the means and mode of men's earning and spending is influenced by all kinds of factors: the structure of industry, the level of technical invention, the extent and stability of the credit system, the existence of employers' federations and of workers' trade unions, and many more. When the economist says that given a constant demand the price of an article will fall as the supply of it is increased, he is simply making a generalization based on what in fact has been observed to happen in the market. In the same way, monetary theory has been appreciably developed and refined as a result of the study by economists of the post-War experimentation of governments in the realm of national finance. The "optimum size of the firm" or the "economies of mass-production" are subjects which, on the one hand, cannot be studied apart from the balance sheets of actual concerns and the accounts of existing mass-production industries; nor, on the other hand, can they find any fruitful application except in the real world where industry, commerce and finance are carried on.

The reader will find this distinction between the science of economics and its data reflected in the contents of the *World Book*. In this index he will find references, in the first place, to a number of articles on the theory of economics, under the headings **ECONOMICS (General)**, **RENT**, **CAPITAL**, etc. These are designed as an introduction to the subject and not, it need hardly be said, as a sufficient substitute for a systematic book on economic theory. But for the student interested in economics, either with a view to self-education or for the purpose of teaching others, this index also makes available the wide and varied information which the volumes offer on all of those industrial, commercial, financial and technical subjects which are at once the materials out of which economic theory is made and the workshop in which that theory is tested.

Our economic activities are nowadays carried on in a world the shape and pace of which is rapidly changing under the impact of technical advance. New processes transform old industries: inventions lead to the appearance of new industries. Changes in the technique of transport have enormously widened markets, leading both to intensified clashes of economic interest and to increased opportunities for commercial co-operation. Industrial legislation, tariff policies, and attempts at economic autarchy have all had their effect on the nature and volume of international trade and on the structure of domestic economies. The bare bones of economic theory, the "dismal science," must therefore be clothed with flesh and brought to life by following out the infinite ramifications of theory into the practice of the workaday world.

Industry and commerce are carried on through the medium of various institutions: the **Limited Liability COMPANY**, the **CARTEL** or **Combine**, the **Central and Joint Stock BANKS**, the **STOCK** and **Commodity EXCHANGES**, the **INSURANCE Com-**

panies. Under the appropriate headings the principles of organization, the functions and mode of operation of these institutions will be found explained and described. Masters and men are organized in the Employers' FEDERATIONS, the CHAMBERS OF COMMERCE, the TRADE UNIONS. The relations between capital and labour are regulated sometimes by arbitration through specially devised and mutually adopted machinery, e.g. the Whitley Councils and the Courts of Arbitration, sometimes by the more primitive method of the trial of strength through the STRIKE and the lock-out. To information on all these questions the guide index provides easy access.

The major industries (to be looked for under the heads AGRICULTURE, COAL, IRON AND STEEL, GAS, RAYON, etc.) are exhaustively described: the sources of their raw materials, the processes employed in them, their capacity and output, their place in native economy and share in foreign trade. So also are the principal mechanical appliances of our present-day civilization (AEROPLANE, DYNAMO, LOCOMOTIVE, etc.) and engineering in all its branches. Together with these often voluminous articles can be grouped a very much larger number of entries dealing with less important tools and mechanisms, industrial processes, trade terms, raw materials and minor industries.

There is a further, and full, set of references which are mainly geographical. Under these headings in the index is gathered a mine of information concerning the natural resources and agricultural crops of different localities, the nature and amount of the industrial production of various towns and regions, and the volume and kind of imports and exports to and from the countries and seaports of the world. From these index entries the reader can immediately discover if facts and figures relating to international trade or domestic production are available for the area or city in which he is interested. By correlating the information obtained, by a systematic delving into the economic data here made available he can construct for himself a fairly accurate picture of both the localization of industries and the nature of industrial, mining and agricultural production, and the international commercial relations between, and relative economic dependence or independence of different parts of the world.

And finally the reader will find indexed here the names of famous inventors and industrial pioneers, and turning to the appropriate page he will be able to reconstruct the story of innovation and advance in agriculture and industry, to place each forward step in its historical setting and, if he so desires, go on from the biographical article (e.g. Sir Humphry DAVY) to read the articles dealing with the discoveries themselves (SAFETY LAMP, FIREDAMP, etc.). By using the *World Book* in this way a pattern can be built up: an industrial problem, its technical solution, the economic consequences of that solution on the industry, etc.

An especially important part in the articles on Economics and Industry is played by the illustrations, which here, as elsewhere in the *World Book*, have been chosen with the idea in mind that "every picture should tell a story." The photographs, in a word, are meant to be *read*, and much information supplementing that given in the text can be gained from them. Take as an example those illustrating the article on Coal-mining (p. 947). Here we have two kinds of picture: one set showing us something of the internal construction of the mine and of the most up-to-date mechanical contrivances that in our day have transformed the business of coal-winning; and another picturing for us the gradual development and improvement of one of the most important factors in mining safety, the miner's lamp. The

CHINA

POPULATION
Estimated
One Symbol Equals
100 000 000

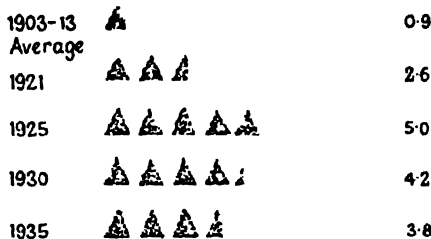


**NET TONNAGE OF VESSELS
ENTERED & CLEARED**
In Million Tons

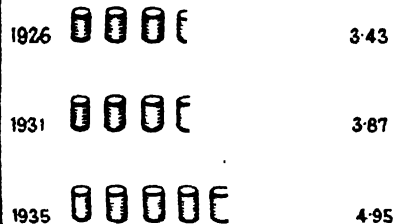
Chinese



EXPORTS OF TEA
One Symbol Equals
100 000 Metric Tons



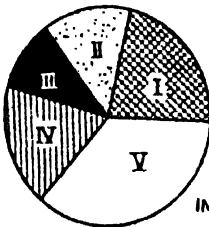
PRODUCTION OF COTTON
Estimated.
One Symbol Equals
100 000 Metric Tons.



EXPORTS OF RAW SILK
In Metric Tons

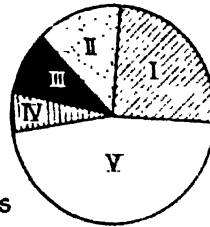
1913. 9 010	1925. 10 155
1920. 6 305	1930. 7 795
1935. 4 626	

FOREIGN TRADE 1935
In Million Dollars



IMPORT

I U.S.A.	174
II JAPAN	144
III GREAT BRITAIN	98
IV GERMANY	103
V OTHER COUNTRIES	520
TOTAL	1039



EXPORTS

I U.S.A.	136
II JAPAN	85
III GREAT BRITAIN	49
IV GERMANY	28
V OTHER COUNTRIES	299
TOTAL	597

articles on all the great heavy industries are similarly supplemented by informative illustrations, as are those on the newer light industries (see e.g. RAYON), and on rail, road, sea and air transport. Nor have the handicrafts that form so large and picturesque a part of our rural industries been forgotten by the illustrator.

A second purpose served by the pictures indexed in this section of the Guide Volume has been to make easier the vivid realization of how industrial technique has changed the surface of the world in which we live and the kind of life we lead. Dams and canals, bridges and docks, railroads and cable lines, the great engineering feats of our century, are better described in pictures than they could possibly be in words.

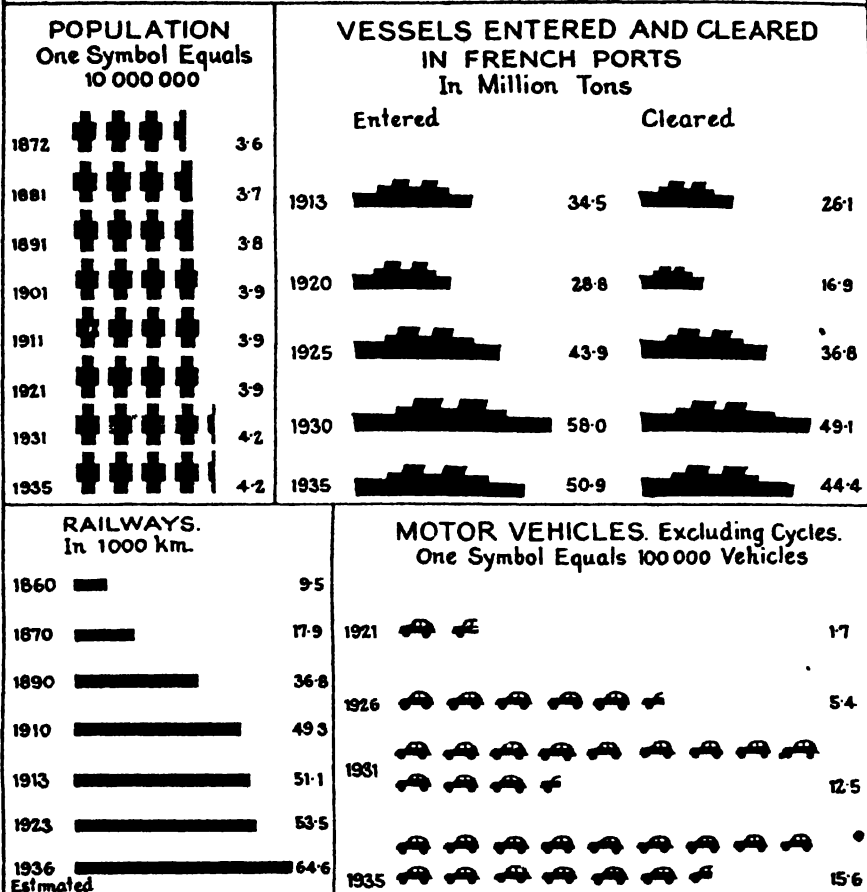
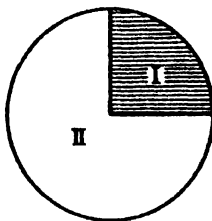
Finally, the changing nature of industrial technique, the evolution of tools and mechanisms, and the description and analysis of industrial processes can again be but inadequately brought home to the reader if photographs and diagrams are not made to play their part. The first point can be well explained by referring to the article on Iron and Steel, containing pictorial diagrams of the modern blast furnace, the Bessemer Converter and the Open Hearth FURNACE used in the Siemens process. The historical evolution of tools and mechanical appliances has already been noticed (the miner's safety lamp) and a further illustration can be found, e.g. in the article on RAILWAYS.

MONEY

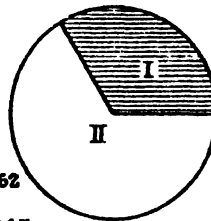
Money is both a unit of account and a medium of EXCHANGE. On the one hand, that is, it allows us to measure PRICES, which are statements in money terms of economic VALUES (see also ACCOUNTANCY, COSTING); and on the other, by enabling us to reduce two commodities to equivalent amounts stated in terms of a third, the use of money facilitates exchange. A moneyless economic system would only be able to effect exchanges in the form of BARTER; but in a money economy people are always willing to accept money in exchange for goods or services since, because of the universal acceptability of money, they know that money will always be taken by others in exchange for goods and services which the purchaser is desirous of buying. Money is therefore desired, not for itself, but for the things for which it will exchange, i.e. for what it will buy.

It is essential then that the money of a country should be in the first place generally acceptable, and in the second place that its value (or purchasing power) should remain reasonably constant. These two criteria are in practice interdependent. For if the value of a country's monetary unit is rapidly depreciating, people will be unwilling to accept it in liquidation of indebtedness. If money is to act as a medium of exchange, and still more if it is to serve as a unit of account, it is necessary that we should be able to believe that the value of the monetary unit, our economic measuring rod, should not contract or expand between one month and the next. If the value of money is increasing (due to deflation, the narrowing of the amount of money in circulation unaccompanied by a proportional decrease in the amount of work which the money has to perform), then those who

FRANCE

FOREIGN TRADE 1935
In Million Francs

IMPORTS
From :-
I FRENCH
COLONIES 5.383
II FOREIGN
COUNTRIES 15.562
TOTAL 20.945



EXPORTS
To :-
I FRENCH
COLONIES 4.890
II FOREIGN
COUNTRIES 10.583
TOTAL 15.473

have contracted debts of a certain amount will have to pay a considerably larger real amount in order to settle their debt. And conversely, if the value of money is decreasing (due to inflation, or the expansion of the amount of money in circulation out of proportion to any increase in the volume of business activity—see GERMANY, post-War history), then those with fixed incomes will suffer serious losses at the expense of the debtor class, who will be able to relieve themselves of their burden of debt by paying back real amounts much smaller than those which they originally borrowed.

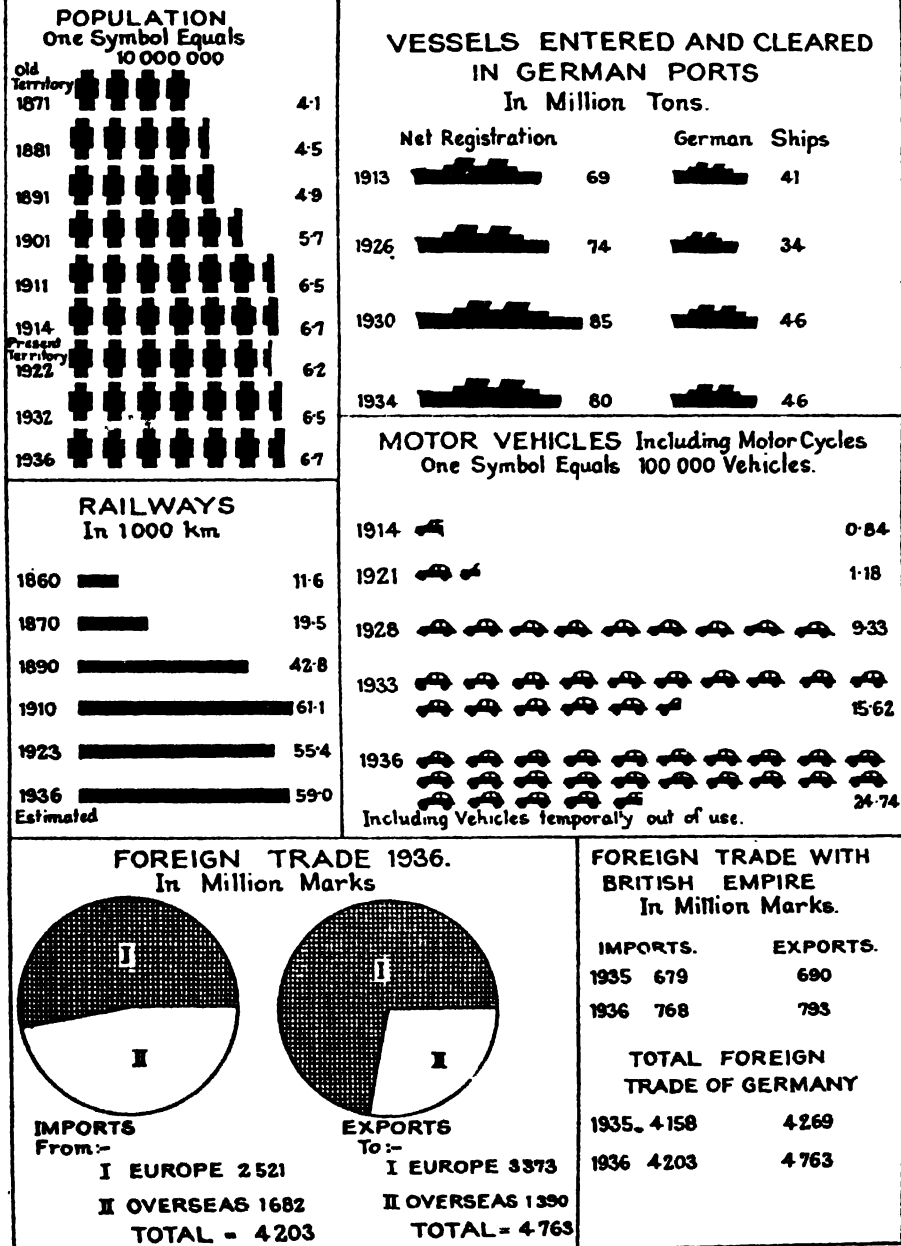
The general level of prices, as determined by the use of INDEX NUMBERS, is another way of looking at the value of money; for when the value of money is high (i.e. when a single POUND will buy a large number of commodities) the general level of prices will be low, and conversely, when prices of other commodities are high, the single pound note will buy less, and the value of money will be low. Whereas the value of all other commodities is expressed in terms of money prices, the value of money itself must be expressed in terms of the prices of all other commodities. Hence the problem of securing a stable value to the monetary unit will be solved if the general level of prices can be maintained at a constant figure.

Money is a commodity like other things, and its value or purchasing power depends on SUPPLY and DEMAND factors (see RICARDO), [Quantity Theory of Money]. By regulating the amount of money in circulation, decreasing the supply when prices show a tendency to rise and conversely, a fairly constant price level can be maintained. This system is known as a Managed Currency. Its disadvantage is that, as it is a non-automatic device, its operation is open to abuse.

It is for this reason that the automatically operating expedient of the GOLD STANDARD is usually preferred. The demand for gold remains fairly constant, and as the amount of new gold mined every year is but a very small percentage of the world's total supply, the supply can also be thought of as relatively fixed. The value of gold therefore changes but slowly, and the adoption of a Gold Standard is simply a means of transferring the comparative stability of gold-value to the value of the monetary unit, by linking these two together. This is done by making the monetary unit the equivalent of a fixed weight of gold of a certain fineness, and allowing free MINTING and melting, and free import and export of gold. Many people advocate that the value of the monetary unit be tied to the value of both gold and silver (see BIMETALLISM), but MONOMETALLISM is the simpler system. In England the Gold Standard was abandoned at the beginning of the War and only returned to in 1925. At the present time a modified form of the Gold Standard is in operation.

The War experiences of inflation and deflation, precisely because of the financial havoc which they caused, taught us a great deal about monetary theory, showing us both the insufficiency of the older theories and providing us with the economic data for the formulation of new ones. Before the outbreak of the War, with the currencies of all the major powers based upon gold, FOREIGN EXCHANGES were relatively stable. Foreign exchange rates are simply the rates at which the monetary unit of one country (say the POUND) will exchange for the monetary unit of another (for example, the FRANC or the MARK). Fluctuations in the foreign exchanges, due to the varying situations and economic policies of the different nations, each of whom is in sovereign control of its own economic arrangements, cannot but be harmful to the carrying on of foreign trade. A depreciated national currency can

GERMANY



also give exporters of that country a differential advantage in the world's markets, a circumstance which in the post-war period has frequently led to the imposition by competitor nations of retaliatory **TARIFFS**.

BANKING

A popular notion of the function of **BANKS** is that the banker makes a living by lending out at interest other people's money. It is truer to say that it is the function of banks to decide as to the distribution of the credit which is created at their disposal by the deposits which their customers lodge with them. Through the control which they inevitably exercise over the distribution of credit, bankers have always had, and have particularly to-day, a considerable influence on the development of industry in general.

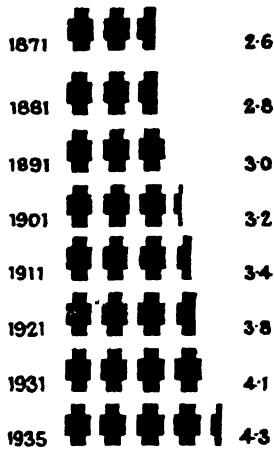
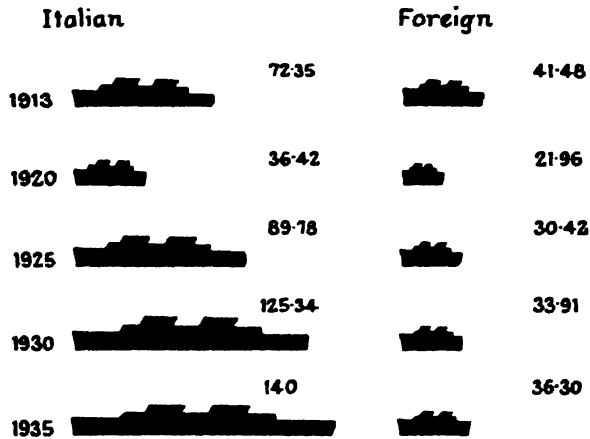
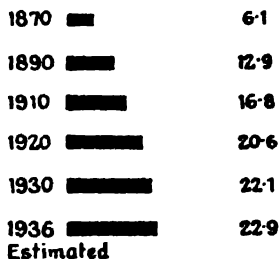
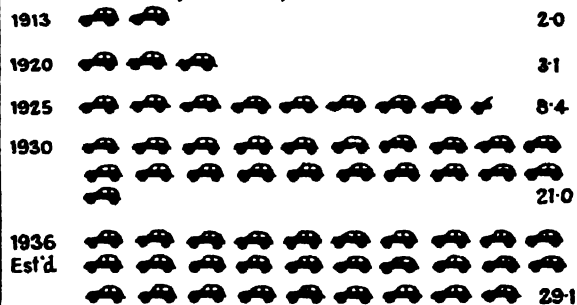
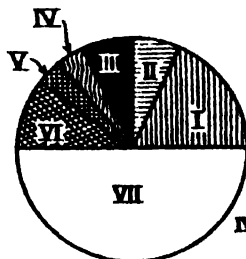
One of the simplest definitions of a banker was given in 1745 in a speech in the House of Commons, and though it has often been quoted, is worth repeating: "By custom we call a man a banker who has an open shop, with proper counters, servants, and books, for receiving other people's money, in order to keep it safe, and return it upon demand; and when any man has opened such a shop, we call him a banker."

In considering the present-day organization of banking, we must in the first place distinguish between the Central Bank or Bank of Issue (in England the **BANK OF ENGLAND**, in Germany the **REICHSBANK**, etc.) and the Deposit Banks, which have no longer any right of note-issue. The Central Bank is normally the hub of a country's banking system. It has close relations with the national **TREASURY**, and, if not a nationalized service, possesses at least semi-official status in a way that the Joint Stock Deposit Banks do not. There is, for example, in England a continual *liaison* between the Governor of the Bank of England and the **CHANCELLOR OF THE EXCHEQUER**, and it is the Bank of England that holds Government balances, that advances money from time to time to the Government, and that issues and maintains the service of Government loans (see **NATIONAL DEBT**, **TREASURY BILL**). And finally, the Bank of England acts as "the bankers' bank," since all the other banks find it convenient to maintain balances with it.

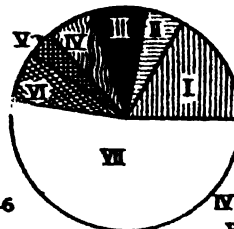
The Deposit Banks are in the main **JOINT STOCK COMPANIES** specializing in short-term lending, as it is of primary importance that their assets should be liquid and easily realizable. Other banks are specialized to the business of "accepting" **BILLS OF EXCHANGE** (see **ACCEPTANCE**, **NEGOTIABLE INSTRUMENTS**) and are known as Acceptance Houses; while yet others employ their funds in discounting Treasury and commercial bills (see **DISCOUNT**) and are known as Discount Houses. The functions of the Acceptance and Discount Houses are primarily to facilitate trade between one country and another, and their relations with foreign banking correspondents and expert knowledge of the financial standing and reliability of foreign clients are an important factor in the smooth conduct of foreign trade. See **COMMERCE**.

The possibility of carrying on any kind of trade whatever, either foreign or

ITALY

POPULATION
One Symbol Equals
10 000 000VESSELS ENTERED AND CLEARED
IN ITALIAN PORTS
In Million TonsRAILWAYS
In 1000 km.MOTOR VEHICLES Excluding Cycles.
One Symbol Equals 10 000 Vehicles.FOREIGN TRADE 1935.
In Million LiraIMPORTS
From:-

I GERMANY	1423
II FRANCE	469
III U.K.	566
IV SWITZERLAND	246
V ARGENTINE	295
VI U.S.A.	877
VII OTHER COUNTRIES	3885
TOTAL	7761

EXPORTS
To:-

I GERMANY	850
II FRANCE	306
III U.K.	430
IV SWITZERLAND	357
V ARGENTINE	162
VI U.S.A.	422
VII OTHER COUNTRIES	2607
TOTAL	5193

domestic, depends to a large extent on the confidence that the banks inspire in their depositors and in the business world in general. In the event of a panic, followed by a run on the bank, it would become immediately apparent that cash reserves fell far short of the total of deposits. Before this will be allowed to happen, resort will usually be had to the device of a temporary MORATORIUM until the panic conditions have passed away and a normal situation been restored. In normal conditions the bank can, of course, be certain that not all of its customers will, at the same time, demand that the total amount of their deposits be paid to them over the counter in cash. Since the invention of the CHEQUE in its modern form, moreover, it has become more and more the custom to liquidate indebtedness by means of these instruments, and during a given period cheques drawn on a bank by its customers will, by and large, be offset by cheques paid in to its customers' accounts and drawn on other banks. In these transactions, no money, in the form of LEGAL TENDER, need pass, book entries being sufficient to record the fact that payments have been made and received. And lastly, indebtedness between one bank and others can be adjusted through the mechanism of the London Bankers' Clearing House.

The Deposit Bank, ever under the necessity of being able to lay its hands on large sums of money in a reasonably short space of time, has in the main to confine its activities to short-term lending. For the financing of long-term loans other institutions have been devised, one of the most important of which is the BUILDING SOCIETY, whose special business it is to finance the construction of houses by loans secured on MORTGAGES.

A last and most important form of banking is the SAVINGS BANK, in England and in many other countries administered by the POST OFFICE.

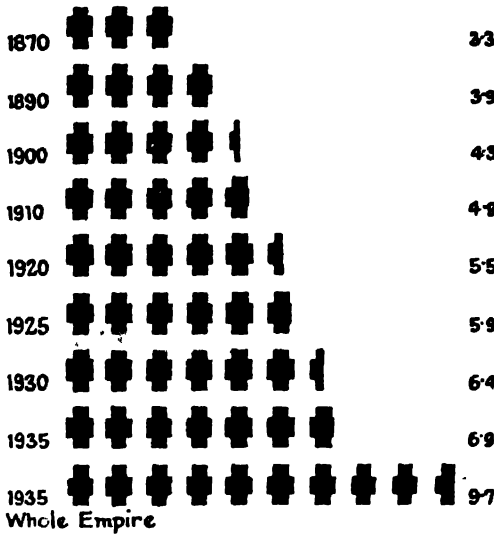
Among the services to their customers which banks have more recently added to the list of their operations is FOREIGN EXCHANGE dealings, the provision of LETTERS OF CREDIT, and the acceptance of TRUSTEE duties.

TRANSPORT

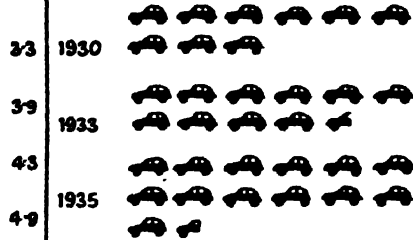
The existence of forms of transportation can be said to go as far back as recorded history—to the times of the primitive nomads, and to the earliest days of the ancient Egyptians, when already traffic up and down the Nile had become the economic link binding together this valley-cradle of civilization. But in spite of the amazing voyages of which early historians tell, the ships of the Ancient World were at best primitive affairs, dependent upon favourable winds or upon the muscles of galley-slaves, and constrained, since the mariners' COMPASS had not yet been invented, to remain close to familiar shores. Land transport too, was at this time an expensive and onerous matter. There were no important developments in the technique of transportation in the Middle Ages, and in effect none were called for, since the prevalence of subsistence agriculture meant that the volume of trade was extremely limited (see COMMERCE). But with the break-up of feudalism, the crystallization of the nation-states, the progress of capital accumulation, the rise of a class of

JAPAN

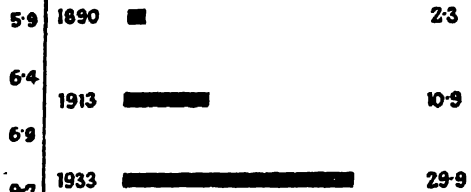
POPULATION
One Symbol Equals
10 000 000



NUMBER OF MOTOR VEHICLES
One Symbol Equals
10 000

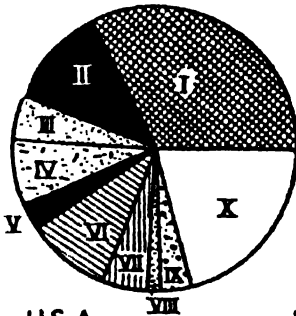


RAILWAYS
In 1000 km.

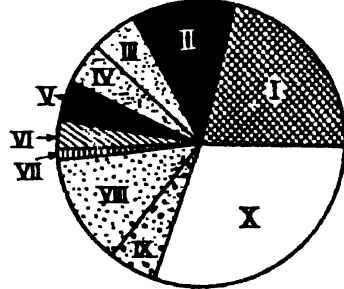


Imports

FOREIGN TRADE
1935.
In Million Yen.



Exports



I	U.S.A	810
II	BR. INDIA	306
III	CHINA	134
IV	MANCHUKUO	191
V	GR. BRITAIN	82
VI	AUSTRALIA	235
VII	GERMANY	121
VIII	KUANTUNG	26
IX	DUTCH EAST INDIES	78
X	OTHER COUNTRIES	516
TOTAL		2499

I	U.S.A	535
II	BR. INDIA	276
III	CHINA	149
IV	MANCHUKUO	126
V	GR. BRITAIN	119
VI	AUSTRALIA	75
VII	GERMANY	27
VIII	KUANTUNG	300
IX	DUTCH EAST INDIES	143
X	OTHER COUNTRIES	722
TOTAL		2472

merchant bankers, the opening up of new land trade routes to the East and the achievement of the great voyages of discovery, commerce between the nations began to grow, and the need for more convenient and swifter forms of transport became a matter of urgency. Great progress was now made in SHIPBUILDING, and in the constructions of DOCKS and HARBOURS. In Italy, where modern commerce developed early, CANALS were built, and the problem of raising or lowering shipping to the different levels at which the canals had to be made was solved by the construction of LOCKS. The first attempt to solve the difficult question of providing cheap land transport was therefore made by adapting to its needs a technique borrowed from the sea. Inland waterways were improved continuously up to the end of the eighteenth century, as was also the building and maintenance of ROADS, and the construction of BRIDGES.

It was not, however, until the beginning of the Industrial Revolution that transport began to assume its specifically modern form. With the invention of the STEAM ENGINE by NEWCOMEN and the application of power to locomotion by STEPHENSON, the Railway Age may be said to have opened, and in the ensuing half-century a network of railway lines gradually spread over Europe and the Americas (see RAILWAYS). An equally important development was the application of steam to SHIPPING, occasioning a revolution in marine transport. But even to-day steam has not completely supplanted sail, and the modern steamship, burning oil rather than coal fuel and propelled by the steam TURBINE, exists side by side with the sailing vessel on the one hand and the MOTOR-SHIP equipped with a PETROL ENGINE on the other. Examples of smaller craft include the MOTOR-BOAT and the YACHT.

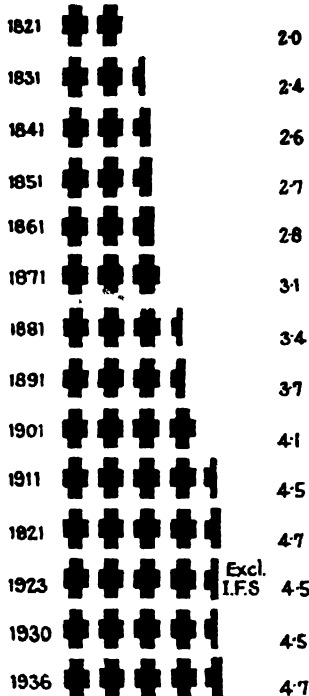
The expansion of international trade during the last hundred years simultaneously created the need for new forms of transport, and supplied the motive power (see COAL INDUSTRY) and construction materials (see IRON AND STEEL) which made these new forms possible. Railway development, which at its very outset relegated the canals to comparative unimportance, and which with even greater speed drove the horse-drawn COACH from the roads, was itself transformed in the 'seventies by the invention of the AIRBRAKE by Westinghouse, a device which for the first time made high-speed railway travelling possible. More recently the development of ELECTRIC RAILWAYS and UNDERGROUND RAILWAYS have provided examples of the specialization and adaptation to different conditions of which this form of transport is capable.

By a strange irony, the railway, which in the beginning emptied the high road of all competing traffic, is to-day suffering intense competition from road vehicles. Although the MOTOR-CAR and the MOTOR-CYCLE made their first appearance in the early nineties, it has been only since the War that the freight lorry and the motor-coach have been making inroads into the goods and passenger traffic previously carried by rail. Accompanying the growth of road transport has been an enormous increase in ACCIDENTS, which it has been the concern of the MINISTRY OF TRANSPORT with the co-operation of motorists, cyclists and pedestrians, to combat, both by a process of education and propaganda and by regulations and such devices as road signs, beacons, and the like. Government regulation with a view to minimizing accidents is not limited to road transport, and legislation exists applying to both land, sea and air travel (see PLIMSOLL, CERTIFICATE OF AIR-WORTHINESS, etc.).

UNITED KINGDOM

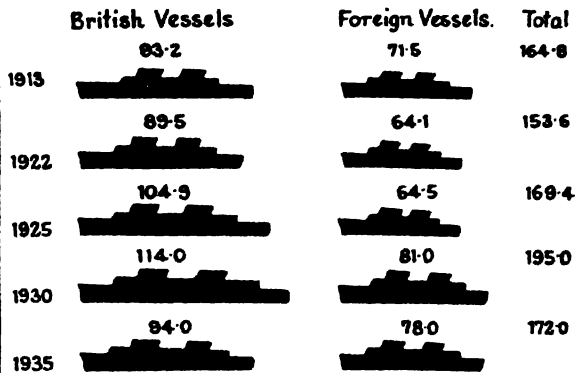
POPULATION

One Symbol Equals
10 000 000



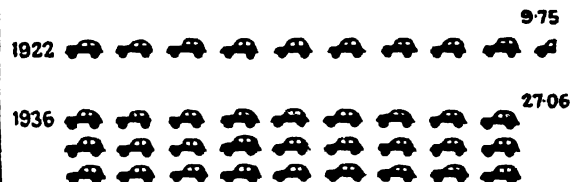
NET TONNAGE OF VESSELS ENTERED AND CLEARED

In Million Tons



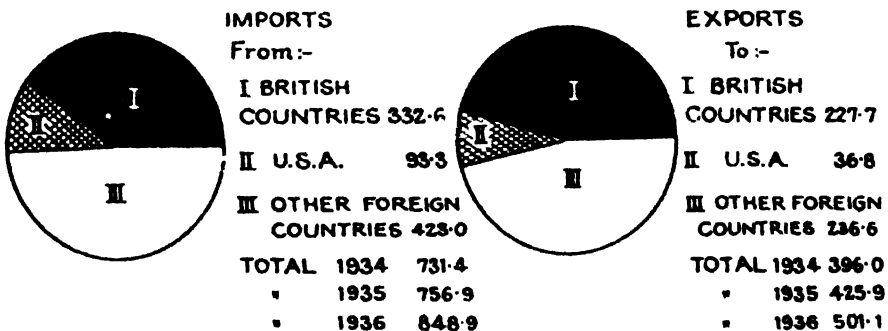
MOTOR VEHICLES, Including Cycles

One Symbol Equals
100 000 Vehicles



EXTERNAL TRADE 1936

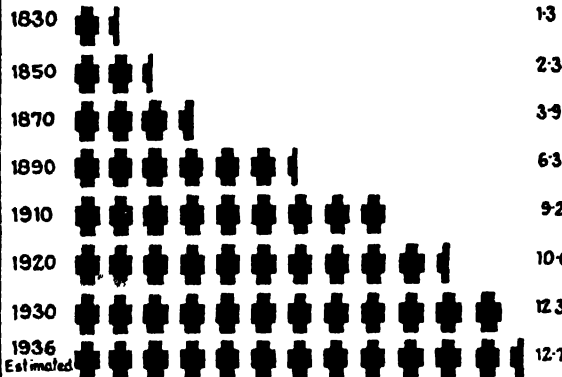
In Million Pounds



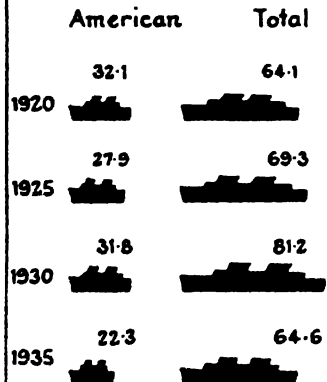
The last of modern methods of transport to be developed has been flying. The **AEROPLANE** was invented in the first years of the present century by the brothers **WRIGHT**, and the rapidity with which it has attained its present level of technical perfection is surprising. Since the War aeroplanes have been widely used for passenger and freight carrying, and present-day **AIRLINES** are as clearly marked on the transport map of the world as are shipping routes. An important factor in stimulating the progress of the aeroplane has been the quest for **AVIATION RECORDS**. New long-distance services are being opened every year, one of the most important and recent, the Transatlantic, making use exclusively of **SEAPLANES**. Of lighter-than-air craft there exist the **BALLOON**, a much earlier invention than the aeroplane, but to-day used mainly for scientific purposes, and the **DIRIGIBLE**, with the development of which the name of Count **ZEPPELIN** is linked.

UNITED STATES OF AMERICA

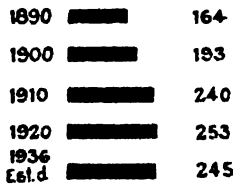
POPULATION
One Symbol Equals
10 000 000



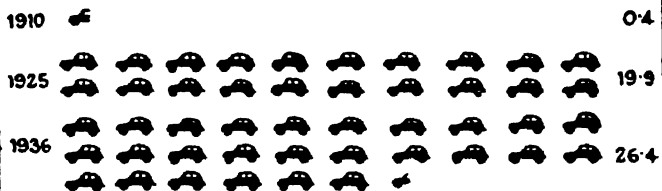
**NET TONNAGE OF
VESSELS ENTERED
IN AMERICAN SEAPORTS
In Million Tons.**



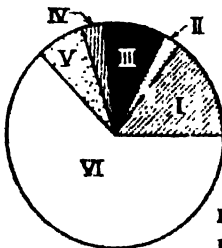
RAILWAYS
In 1000 Miles



MOTOR VEHICLES Excluding Cycles
One Symbol Equals One Million Vehicles.

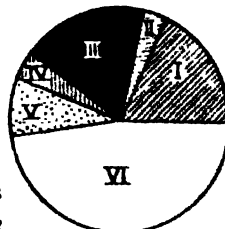


FOREIGN TRADE 1935.
In Million Dollars



IMPORTS
From:-

I CANADA	375.8
II FRANCE	65.2
III UNITED KINGDOM	200.4
IV GERMANY	79.6
V JAPAN	171.7
VI OTHER COUNTRIES	1526.4
TOTAL	2419.2



EXPORTS
To:-

I CANADA	383.9
II FRANCE	129.5
III U. K.	439.9
IV GERMANY	100.6
V JAPAN	204.3
VI OTHER COUNTRIES	1196.1
TOTAL	2453.4

QUESTIONS

GENERAL ECONOMICS

1. What is the distinction between value in use and value in exchange?

Pages 1314, 4360.

2. What meaning, if any, can the economist attach to the phrase: "a just price"?

Pages 1314, 1483, 3541, 4124, 4360.

3. Write some notes on the contribution made to economic science by any two of the following: Adam Smith, David Ricardo, T. R. Malthus, John Stuart Mill, Karl Marx.

Pages 992, 1314, 1630, 2414, 1640, 2683, 2773, 3708, 3985.

4. What is the Gold Standard, and explain its operation?

Pages 393, 483, 1803, 2820, 2829.

5. Explain the rôle of Acceptance and Discount Houses in the organization of foreign trade.

Pages 389, 482, 1484, 1591.

6. Why is the mortgage in general an unsuitable investment for the Deposit Bank?

Pages 390, 647, 2860.

7. Enumerate the essential qualities of a good tax, explaining your selection.

Pages 2141, 3477, 4177.

8. Discuss the arguments in favour of and against (a) a general tariff, and (b) protective tariffs to shelter infant industries.

Pages 829, 1095, 1630, 2174, 3562, 4172.

9. With what economic arguments would you defend the practice of instalment-buying?

Pages 1062, 2027.

10. Discuss the advantages and disadvantages of economic combinations.

Pages 782, 2697, 2829, 3541, 3691, 4289.

11. What do you conceive to be the functions of Trade Unions in present-day society?

Pages 216, 969, 998, 1698, 2402, 4099.

12. Examine the measures taken in Great Britain either by the state or by voluntary associations to assist the agricultural producer.

Pages 87, 1023, 1112, 2672.

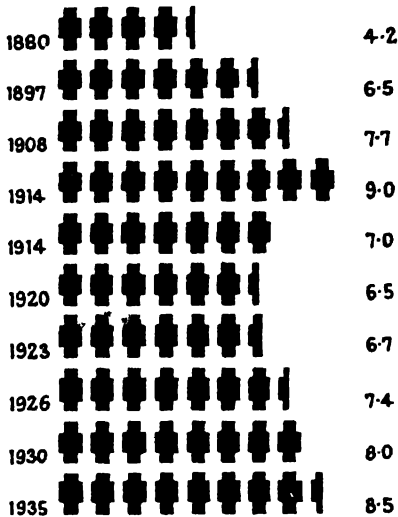
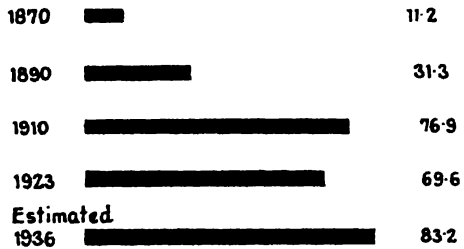
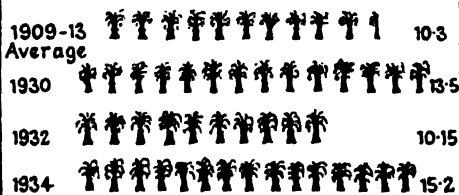
13. Discuss the arguments for and against nationalization.

Pages 2893, 2942, 3995.

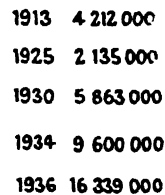
14. The progress of technology has been a powerful factor in modifying the organization of modern industry: discuss this general statement, illustrating your answer by reference to the effect of the discovery of refrigeration on the development of the meat industry.

Pages 989, 1832, 2710, 3670, 3934.

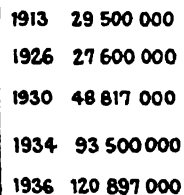
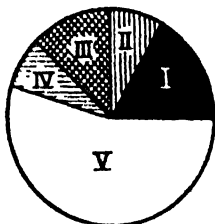
U.S.S.R.

POPULATION
One Symbol Equals 20 000 000RAILWAYS
In 1000 km.PETROL
One Symbol Equals 1000 000 GallonsPRODUCTION OF WHEAT
One Symbol Equals 2 000 000 Tons.

STEEL In Tons.



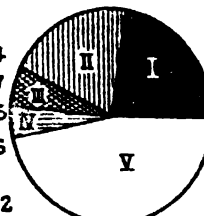
COAL In Tons.

FOREIGN TRADE 1935
In Million Gold Roubles

Imports

I U. KINGDOM	43.4
II GERMANY	21.7
III U.S.A.	29.5
IV FRANCE	17.6
V OTHER COUNTRIES	129.2

TOTAL 241.4



Exports

I U. KINGDOM	86.3
II GERMANY	66.0
III U.S.A.	26.5
IV FRANCE	18.0
V OTHER COUNTRIES	160.8

TOTAL 357.6

The Figures are taken from Official Publications of the Soviet Government

15. Contrast the principle of *laissez-faire* with that of economic planning.
Pages 1317, 1630, 2414, 3755, 3811, 4066.

16. Discuss the relation of wealth to welfare.

17. "Economics is the study of man in the ordinary business of life. It inquires how he gets his income and how he spends it."—Marshall. Examine this definition of the scope of the subject.

18. "You cannot change human nature." Examine this statement in the light of the successive transformations wrought by technical progress in the social environment in which we live.

19. *Laissez-faire* in the modern world is an anachronism. Do you agree?

20. The development of international trade has made of the world a single unit. Comment on the implications of this view.

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THE SCIENCES

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The subject-matter of this section is classified in Sectional Index number 4.

STUDY GUIDES

SCIENCE AND THE PHYSICAL WORLD

THE branch of knowledge with which this Study Guide and the relevant sectional index are concerned is strictly that which includes the sciences of non-living matter and the exact or abstract sciences—and not only the laws and the theory, but also the subject-matter and achievements of these sciences—in fact, it embraces everything that may be said to have a scientific basis, within the limitations imposed. Strictly, of course, science is a question of thought and method, yet for those who are beginning scientific studies in elementary schools the understanding of principles and hypotheses is greatly assisted by examples and by some reference to the instruments, discoveries and reasonings by which the knowledge of general laws was reached. For example, the science of mechanics includes, for our purposes, the mechanical devices that actually came before the abstract laws. In another sense, a matter so simple as the construction of a thermos flask is legitimately a matter for scientific consideration, since it was only through the understanding and application of the three principles of conduction, convection, and radiation of heat, and their application to the problem of heat conservation, that this flask was contrived and became a commercial possibility. The plenum ventilating system, devised by scientists and now a *sine qua non* in every large public hall, is a similar case in point. An instrument or process is devised by chance or calculation; its possibilities realized, it is eagerly seized upon, exploited and used everywhere, and becomes part of the equipment of daily life. Developing science is at the root of all progress to a fuller life; it cannot be separated from it. Hence, if a piece of embodied scientific research becomes a commonplace, cannot be improved upon, and holds in itself no vital interest for scientists, the study of it none the less continues to throw sidelights on scientific method and enliven the study of scientific laws. To this end we have been mindful also of the earliest beginnings of scientific knowledge—of those observed facts and immemorial lore that man stored up for his own use; those bits of experience that enabled him to construct and classify; those early speculations, some proved false, others fruitful of truth or invention, leading to the gradual advances on many fronts that constitute what is known as “the march of science.”

Research begins with a growing interest felt sometimes in a school subject like elementary chemistry or, as often as not, in some problem like the working of an electric train, or the deep lesson of a fossil chanced upon in a seaside walk, or the marvels of wireless apparatus; and the need is felt for ever more information and for new lines of inquiry. To do what is possible to meet this demand, as far as is compatible with the limitations of space, is the aim followed in the scientific section of the *World Book*. Where further information is required on special points of interest, it is hoped that the Reading Lists, will provide an answer.

THE UNITY OF SCIENCE

Of the many divisions of the sciences which have been attempted by writers from Bacon and Comte to Prof. Karl Pearson in our own day, none is perhaps

thoroughly satisfactory or really illuminating. In all attempts at classification of natural phenomena and the laws of scientific thought, difficulties arise which prevent the setting up of logical or symmetrical divisions. Even terms like "natural" or "physical" science are hardly defined in the same way by any two authorities. It is inevitable that, with the limitations we have set ourselves, certain studies should be included in this Index in part, as far as they are relevant to the *corpus* of knowledge it embraces. Thus BIOCHEMISTRY will always remain the shadowy "middle kingdom" whose frontiers will hardly be settled by purely inductive methods; the study of evolution, again, is fairly evenly divided between dead nature and living.

This difficulty of drawing a clear line between living and non-living is, of course, only one aspect of the age-old problem of classification; and this is a problem which the increasing specialization of scientific method does little to resolve. New sciences or branches of science arise before others are fully worked out, until the whole forms a kind of spectrum of knowledge, with unexplained gaps here and there and with each band shading off into the next. And not only do the sciences stand in no clear relation to one another, but closer investigation of matter itself—the subject of so many of them—reveals still further mysteries. For in the final analysis, matter becomes progressively harder to separate from the idea of rays or waves of ELECTRO-MAGNETISM; mass and energy have become interchangeable terms; and the intangible "fourth dimension" is held to confer reality on the three with which men had been content since the dawn of reasoning. Gone are the days when scientists could dogmatize, when teachers could speak confidently of unchanging elements built up of molecules and atoms and with their fixed atomic weights; when an electric current was considered as something distinct from the medium in which it flowed. ATOMS (the word means "indivisible") now appear as having their own sub-structure, as of a planetary system with positive nucleus surrounded by a varying number of electrons or wandering "point charges" of negative electricity, with appreciable spaces between, so that the components of this tiny roundabout can be bombarded with streams of other migratory electrons (i.e. one or another of the several types of electro-magnetic radiation) and only a hit be scored occasionally. The knowledge and management of these imponderables is now part of the equipment of both physics and chemistry.

Added to the establishment of the electrical basis of matter has come the investigation of atomic weights and isotopes, so that, in the case of certain gases, what we have known as elementary substances prove to be mixtures of an indeterminate number of components having closely similar properties. RADIUM, a metal and another element, disintegrates spontaneously—it radiates electric energy, and after perhaps millions of years it is no longer radium but lead. It seems plausible that radium and the other radioactive elements are for us the last relics of the time, untold ages ago, when the earth was a fragment recently separated from the sun and throwing off, as the sun and stars still do, energy from the transmutation of its own substance. By a combination of fortunate chances the earth cooled in such a way and degree as to become, in part, habitable, though still receiving much of what makes it so from its flaming parent, the sun. Thus ASTRONOMY and PHYSICS and CHEMISTRY interact and help one another, making us realize that the earth we live on is at a momentary stage (for astronomic time) in an uncharted process of evolution (there could be millions of other earths not in the least like ours). Similarly the substances with which we are familiar, metals and rocks, liquids and gases, prove

to be almost chance assemblages on the kaleidoscope of electrical vibrations which is coextensive with the universe. Astronomers are discovering how matter, in far-distant regions of the universe, can take on forms almost beyond conception; the more that is known of stars like the giant Betelgeuse and the dwarf Upsilon Draconis, the more unlikely does it appear that the forces that govern their orbit and their internal stability will ever be fully analysed and resolved.

If the consideration of these immensities—of the almost infinitely great and the imponderably small—be thought unprofitable, it may be answered that scientific progress has, it appears, come in two ways—by free speculation and research, which leads chosen spirits into regions where other men fear to tread, and by the application of the results of research to practical ends. Thus there might have seemed little likelihood of useful results accruing when, during the '70's, SIR WILLIAM CROOKES began his investigations into the effects of electric discharges in vacuum tubes. Yet not only was it found that the invisible CATHODE RAYS so generated—of little consequence in themselves—when focused on PLATINUM produced the invaluable X-rays, but the existence of the ELECTRON was also definitely proved by later researchers using SIR WILLIAM CROOKES's results. Without this clear knowledge of the electron and the further seemingly irrelevant discovery that electrons can be expelled from certain metals under the influence of light, television would have remained unguessed at. Again, HERTZ's experiments with a crude electric oscillator producing electro-magnetic waves had no surprising results in themselves, yet upon his work the whole science and practice of WIRELESS TELEGRAPHY and broadcasting have been built up. As is well known, the element HELIUM, the safety gas of airships, was discovered spectroscopically in the sun's atmosphere before its existence on earth was proved. Plainly, therefore, we cannot dispense with the researcher any more than with the technician, and the real justification of free research is the vital importance of the results which have accrued from apparently unlikely sources.

Through the various perplexities which surround the modern scientist, the fundamental method of science remains the same as in NEWTON's day, as in LORD BACON's, as in PLINY's. It resolves itself into the collection and systematizing of facts and phenomena, their interpretation by mechanical association, and their resolution into general truths. It advances through experiment, by inference from sense impressions, and by calculation, with the object either of synthesizing the truths discovered into natural laws or of making or discovering a substance or process of value to man. It is mainly in the scope and complexity of its operations that modern science differs from the work that has preceded it. Certainly its conclusions are no less liable than were those of former ages to be modified by new knowledge.

Concluding our survey of scientific studies in general, we will proceed to a consideration of the development and present state of the individual sciences.

PROGRESS OF THE SCIENCES

Astronomy. It can hardly be disputed that astronomy is the earliest of the sciences, since it is accepted that it has grown out of primitive men's observation of the diurnal round of the celestial bodies and the passage of the seasons, and from the recognition of the meaning latent in the regular recurrence of these phenomena. The Chaldeans, as early as the sixth century B.C., were able to forecast lunar ECLIPSES, though not those of the sun. In ancient times, astronomy was also the basis of the science of navigation: the early voyagers literally hitched their vessel to a star,

for away from land they had no guide but the heavenly bodies. The astrolabe was invented in time for Columbus to use, and until the eighteenth century modified forms of it, combined with the magnetic COMPASS, were the chief guide for sailors in determining their position at sea. Even now, with the ultra-sensitive compass and the directional wireless beam, navigation is largely dependent upon the accurate use of the sextant. Knowledge of astronomy broadened gradually by observation and rational inference, but the greatest advances were made with the invention of instruments of increasing accuracy. Galileo's TELESCOPE opened a new era, finally establishing the Copernican theory on the ruins of the Ptolemaic, and research now proceeded in ever-widening fields. The SPECTROSCOPE and sensitive camera plate, by revealing what could not be seen in the most powerful telescopes, opened yet further vistas. Thus, the spectrum of the SUN was realized to be an absorption spectrum, proving that the sun had an ATMOSPHERE (or so the flaming gaseous envelope might be termed), a fact which the telescope could not prove so definitely. We now know, through spectroscopic research, that the sun possesses 66 of the elements known on earth, all of them in a molten or vaporized state, and it is probable that other heavier elements are present in varying degrees beneath the surface. The vast feathery prominences visible during eclipses are masses of flaming HYDROGEN, the lightest of gases, and these, under the impulse of a solar storm, may leap half a million miles into space in the course of a few hours. At the surface, the temperature of the sun is presumed to be in the neighbourhood of 6000° C.; at the centre it may reach fifty million degrees. Yet, in spite of this prodigious conflagration of matter, the sun is proved to be actually among the smallest and dimmest of the stars.

Concerning the so-called "fixed stars" the spectroscope, combined with the telescope, INTERFEROMETER and other delicate instruments, has also told us a vast amount. Thousands of stars are now classified in various groupings dependent on their degree of incandescence and other factors. Their distances from the earth are known with a fair degree of accuracy, their rate and direction of motion, what elements they contain, their size, density and absolute magnitude. The results are, in many cases, difficult for the human mind to visualize (see the article STAR). As to the problem of the means by which the radiation of the sun and stars is maintained, it can only be accounted for by "sub-atomic" changes through which protons and electrons annihilate one another, unceasingly transforming matter into radiant energy, yet all the while losing only inappreciably in mass. The resulting waves of energy reach us as LIGHT, HEAT and magnetic influence from the sun, but from the stars (apart from their tenuous light) probably in the form of the mysterious cosmic rays.

It is a sobering reflection that our chief means of knowing the distant stars and nebulae is by the light that comes from them (travelling at 186,000 miles per second), and that although the intellect reasons of them as they *are*, the eye views them in great telescopes as they *were* long before men began to reason, or even existed at all. We hear of leisured persons trying to "kill time," but here is their object already achieved in the outer depths of space, where the term "now" and the idea of the "universe as it is" cease to have any absolute relevance to human standards.

Physics. Unlike astronomy, which has moved farther and farther from its original conceptions, developing physics seems to be returning to something like the ideas of

Empedocles and Lucretius. These thinkers conceived of the different forms of matter (to them, earth, air, fire and water) as types of structure built of the same basic substance. To modern scientists, as we have seen, the fundamental material to which both matter and energy are referred is the electric charge—the proton and electron, combined (sometimes also with the uncharged particle or neutron) in various systems and arrangements which give the different substances their characteristic properties.

The greatest single discovery in the development of physics was, one can hardly doubt, **NEWTON's** law of gravitation, which sounded the depths of space with calculation and made the whole universe of stars amenable to a principle whose working could be seen and tested by any observer. This axiom, combined with the same scientist's three laws of motion, held the field in physics with hardly any modification for over two centuries, and became an essential part of the framework of the kindred sciences of astronomy and mechanics. Then came **EINSTEIN**, forcing on astronomers and physicists a new view of those apparently firm landmarks, space and time, mass and motion, and further complicating their calculations; although, as is noted, he denied not the fact of gravitation but Newton's explanation of its working. Yet ultimately, Einstein has influenced the progress of these sciences less than was at first predicted, and the theory of relativity is by no means proved in all its implications. In these volumes (articles **GRAVITATION** and **RELATIVITY**) the celebrated effect of the curvature of space-time is explained in simple language, as far as any explanation can be thoroughly understood which does not take into consideration the mathematical side.

On another mystery which has exercised the minds of scientists—the problem of whether light consists of particles or waves—the scientific contributors to the *World Book* do not pretend to have said the last word. Modern physics in fact is, as never before, in a condition of flux, continually branching out in new directions with discoveries that bear little relation to one another. The **QUANTUM THEORY**, the **ELECTRO-MAGNETIC** wave theory, **RELATIVITY**—the discrepancies between these are far from being resolved, and the day when the various discoveries and principles will be synthesized into a homogeneous view of all the phenomena seems if anything to recede. Students will gain a clear general view of these problems in the articles on **PHYSICS** and the related subjects listed at that entry in the Index.

The other sciences are treated more fully below. **CHEMISTRY** also has vastly broadened its scope in recent years. So far as concerns the ultimate analysis of matter, the study of transmutation, etc., chemist and physicist work on common ground. Few of the chemical elements, it seems, remain to be discovered. It is probably in the field of industrial chemistry—the synthetic production of all types of materials from **AMMONIA** and **METHANOL** to synthetic **DYES** and artificial **FERTILIZERS**—previously only to be made by the breaking down of more complex substances—that the greatest advances have been made. In this the process of catalysis, as yet incompletely understood, has played an important part. The science of **MECHANICS**, which began with the lever, the wheel, and the hydrostatic laws of Archimedes, and was given perhaps its greatest impetus by the researches of Newton, has gained an important accession of material in recent years with the intensive study of air flow; some account of the latter is given in the article on **FLIGHT**. **GEOLOGY**, too, now reaches back into "astronomical" figures, as evidences of the great antiquity of the earth accumulate (see table on page 1713), though this science deals largely

with causes still in operation and therefore more readily intelligible. An important branch is the practical work of indicating the whereabouts of coal, oil and artesian basins. The related subject of **SURVEYING** is outlined concisely and in a practical manner. All important **ROCKS**, **METALS** and **MINERALS** are described in separate articles, besides the general articles under those names.

The article on **GEOGRAPHY** provides a useful review of principles and modes of study, aided by the series of full-page, distinctively coloured maps, some of which will be found in every volume. The mysteries of the weather, too, are set forth in the article **CLIMATE** (see also the **Index** entry).

Finally, besides the research sciences, the newest methods in elementary teaching subjects are described (see **ARITHMETIC**, **ALGEBRA**). The science of **GEOMETRY** was presented to the world almost complete by Euclid over 2000 years ago and few important additions were made to his system until comparatively recent times; the modern treatment of the subject in elementary schools is briefly set out. Included also are those various instruments of calculation in science, commerce and industry—the weights and measures, the metric system, and the physical and electric units.

PHYSICS

It is said that **Physics** is the study of **ENERGY** and the relations between **MATTER** and **Energy**. The fact that it is a form of **Energy** can be deduced from the fact that it can be produced by and converted into other forms. When **FRICTION** occurs between two objects acting against one another the result of the frictional resistance is heat. **Physics** is a modern science, and although the world owes a debt to such men as **ARCHIMEDES**, **BACON**, **GALILEO**, **BOYLE**, the chief discoveries are due to such men as **NEWTON**, **KELVIN**, **FARADAY**, **AMPERE**, **EINSTEIN**, **MARCONI**, **GALVANI**, **VOLTA**, **OHM**, and **FLEMING**.

Physics, itself only one of the physical sciences which are together concerned with the inanimate world, is divided into **HEAT**, **LIGHT**, **SOUND**, **MAGNETISM**, and **ELECTRICITY**.

HEAT

The existence of **HEAT** is inferred from sensations we receive from some heated object. We also infer that it is distinct from the object in so far that the **TEMPERATURE** or amount of heat given off varies under varied circumstances. The addition of heat to an object often changes it in other ways, e.g. it may expand, and this effect is used as a guide to the temperature. The **THERMOMETER** is the instrument used for this purpose, and to guarantee uniformity in temperature reading there are three recognized scales by which it may be measured, the **CENTI-GRADE**, **FAHRENHEIT**, and **RÉAUMUR**. As it is a form of **ENERGY**, heat may also be measured in **FOOT POUNDS** and any other way in which energy is measured, but usually it is measured in relation to the **BRITISH THERMAL UNIT**, or the **CALORIE**.

The science of **THERMODYNAMICS** deals with the application of the principles of **MECHANICS** to heat phenomena. Practical results of this science are the **STEAM ENGINE**, the **PETROL ENGINE**, and **HEATING** and **VENTILATION**.

LIGHT

The various discoveries concerning LIGHT which have been made since the Greeks noticed that the angles of incidence and reflection were equal when light struck a MIRROR, have mostly been made in modern times. This is a curious fact since the TELESCOPE and SPECTACLES and the LENS necessary for both these were invented in the intervening time of supposed ignorance. The MICROSCOPE, the INTERFEROMETER and the POLARISCOPE were later inventions, but even they might have been invented without the discoveries of HUYGENS, NEWTON and the others. Yet we must not think that the knowledge they gained was not of value. Not one of the instruments mentioned could have achieved anything like the perfection it has achieved were it not for these discoveries. GALILEO and BACON were making use of phenomena they could not explain, modify or perfect. It was the discovery of such things as the laws of refraction, reflection and DIFFRACTION which made OPTICS a real science. The investigation of the SPECTRUM and of the ABERRATION of light, the ELECTRO-MAGNETIC THEORY OF LIGHT, and the discovery of the laws of POLARIZATION led to much practical advance and assisted in the formulation of Einstein's theory of RELATIVITY.

SOUND

The phenomenon of SOUND is not generally recognized as being of such great scientific importance as that of heat or light. And, indeed, its production was never much sought after as an effect in itself. To-day interest is centred upon its elimination, for noise is recognized not only as a common waste of ENERGY, but as being harmful to the nervous system. Yet the proper production and control of sound is the foundation of the art of MUSIC, and much that has been learnt through that art has been used of late years in the constructions of buildings where ACOUSTICS have to be considered, and ECHOES eliminated. That the VACUUM is impervious to sound which travels by vibrating waves is generally known, but the carrying properties of water which make the hydrophone of value are not sufficiently appreciated. An instrument designed to produce sound is the SIREN, though the Gramophone and other instruments used for SOUND RECORDING and transmission come within this category.

ELECTRICITY AND MAGNETISM

Electrical power, acting as it does through an unseen force, was in ancient times a source of mystery and wonder, though it would be wrong to think that Greek scientists were content to assign a supernatural origin to it. THALES of Miletus and LUCRETIVUS in his *De Rerum Natura* attempted to give a natural explanation of the magnetic properties of the LODESTONE, and other materials magnetized through friction or by induction. The discovery that a piece of iron magnetized from the lodestone would point north and south when floating in water appears to have been made at a very early period in China, but the COMPASS was not used to any extent until the Middle Ages. The affinity for the north and south which is shown by the MAGNETIC NEEDLE is due to the fact that as the lodestone is a small natural MAGNET so is the earth a large magnet and the north and south (roughly) are its two ends or POLES, and as Dr. Gilbert showed, the magnetic power of a magnet is concentrated at both ends so that it is only the ends which attract. Hence the compass point is

attracted to the north and south magnetic poles of the earth. The **DIPPING NEEDLE** is the instrument which measures the varying magnetic attraction of the earth, and at the magnetic poles alone does it assume a perpendicular position.

The relations between electricity and magnetism are dealt with in the science of **ELECTRO-MAGNETISM**, to which **FARADAY** contributed so much which made clear what had previously puzzled scientists. The work of others such as **OHM**, **AMPERE**, **GALVANI** and **VOLTA** led the main line of study from magnetism to the new science of **ELECTRICITY**. It was indeed the new science of dynamic electricity as opposed to the earlier static electricity. The various cells or **ELECTRIC BATTERIES** which produced current by chemical action were the first modern electrical instruments, though they had been preceded by the **ELECTRIC MACHINE** and the **ELECTRO-MAGNET**. The **ELECTRIC BELL** was one of the first practical results of the new discoveries and in the few intervening years there has been a stupendous advance in the harnessing and use of electric power.

The **STORAGE BATTERY**, **ELECTRIC GENERATOR**, **ELECTRIC LIGHT**, the **DYNAMO**, **REFRIGERATOR**, **TELEPHONE** and **WIRELESS**, are all milestones in the road of discovery. Around the science has grown up a system of measurement of electrical power. So we have the **AMPERE**, **OHM**, **VOLT**, **FARAD**, **WATT**, **KILOWATT**, and the instruments of measurement such as the **GALVANOMETER**, **AMMETER**, **VOLTMETER** and others. Yet with all these discoveries we know little of the nature of electricity. The discoveries of **CROOKES**, **BECQUEREL**, **ROENTGEN**, the **CURIES**, **RUTHERFORD**, have told us what **ATOMS**, **ELECTRONS** and **PROTONS** are, and have explained their theories so that we know something of the composition of matter, but how and why these things happen we do not know.

CHEMISTRY

This science has a sphere of action which can be extended almost indefinitely. As a result many are known as Chemists whose work is entirely different both in range and method. The father of **CHEMISTRY** is **BOYLE**, though **PARACELUS** and even the **ALCHEMISTS** may be thought to have some claim to be the founder or founders of the science.

The common divisions of Chemistry are **Inorganic Chemistry**, **Organic Chemistry**, **BIOCHEMISTRY**, and **CHEMISTRY (INDUSTRIAL)**. The material of **Inorganic Chemistry** are the **ROCKS**, **SALTS** and **MINERALS** which make up the earth. **Organic Chemistry** deals with materials which are obtained from plants and animals such as **LEATHER**, **SUGAR**, **FATS**, **STARCH**. In so far as the method of these two branches does not differ in a general sense, i.e. both employ **SYNTHESIS** and **ANALYSIS**, the material of both branches is, broadly speaking, the same. That this must be so is clear from the fact that any material is an element or a **COMPOUND**, the result of the union of two or more elements. Most of the elements are **METALS** and of the remainder the majority are **GASES**. **MERCURY** is the only metal which exists in a **LIQUID** and not a **SOLID** state.

The composition of elements is not, strictly speaking, the concern of Chemistry but that of other sciences also. The **ATOMIC** theory, which states that matter is made up of **MOLECULES** themselves composed of **PROTONS** and **ELECTRONS**, is the generally accepted conclusion. Chemists use these conclusions in their work; the fact that some elements combine to form compounds and some do not is partly due to the molecular

structure. The majority of compounds are included among the ACIDS, BASES, SALTS, and HYDROCARBONS. Among the Bases are numbered the ALKALIS, among the salts the CARBONATES, HALOGENS, NITRATES, and SULPHATES, among the Hydrocarbons METHANE and PETROLEUM and their derivatives. To distinguish the compounds exactly recourse is had to formulae. Each element has its own chemical symbol and the symbol or formula of a compound is a combination of the symbols of the constituent elements.

Both with regard to elements and substances there are varieties of form which do not effect the being. In elements this capacity for existing in different forms is known as ALLOTROPY. In compounds some substances may exist either in a COLLOIDAL or CRYSTALLINE state, though usually compounds with a different form have a different composition. A chemical phenomenon that defies explanation is that certain substances will only unite to form a new substance when a particular third substance is present, although this third substance is itself unchanged in any way. This phenomenon is known as CATALYSIS. Other examples of chemical terminology for recognized qualities, processes, etc., are EMULSION, ESSENCE, FULMINATION, HYDRATES, ION, PHOSPHORESCENCE, RADICAL, SOLUTION, COMBUSTION, DECOMPOSITION, PETRIFICATION, DISTILLATION, FERMENTATION, OXIDATION. The third recognized division of Chemistry is BIOCHEMISTRY. This science deals with the chemical character of the substances of which living things are composed and also with the chemical changes that are part of the life processes of PLANTS and ANIMALS. A subdivision of the latter is known as the chemistry of PATHOLOGY, and is normally regarded as a branch of MEDICINE. Another subdivision is known as the chemistry of NUTRITION or METABOLISM, and its study is divided between BIOCHEMISTRY and PHYSIOLOGY, which is a branch of medicine.

The principal classes of substances which occur in animals and plants are CARBOHYDRATES, FATS, and PROTEINS, but by no means are all included in these classes. The chemical composition of several of the VITAMINS is still unknown but the action of these substances can be studied and indeed is receiving an attention commensurate with their importance.

The contribution which chemistry has made to human welfare is inestimable, for it has had a part in almost every mechanical or industrial invention. But apart from this the more obvious contributions are with regard to COAL TAR and its derivatives, PIGMENTS, DYE STUFFS, DRUGS, PERFUMES, EXPLOSIVES, CELLULOSE, and artificial FERTILIZERS.

GEOGRAPHY

The study of GEOGRAPHY leads to a knowledge of the earth, its contours and divisions, but these may be considered from two aspects. From the point of view of PHYSICAL GEOGRAPHY they are considered in relation to the whole. The ALPS are considered as a mountain system on the continent of Europe, the DANUBE or any other river as a river of EUROPE or some other continent. Political geography, on the other hand, studies these things in relation to the group of people living within the natural or arbitrary borders in which they occur. The Alps are then considered in so far as they affect the political economy, etc., of the people of FRANCE, SWITZERLAND, and ITALY. The physical conformation and the RAINFALL, vegetation,

etc., of a country may decide whether it is to be rich or poor, the size of the POPULATION, its relations with neighbouring nations. Political geography is extremely important for a proper appreciation of HISTORY. Wars have been fought to gain a MOUNTAIN which would act later as an almost impregnable frontier, or to gain an outlet to the sea which would bring trade. The establishment of the POLISH CORRIDOR, so vital to the trade of POLAND, has split GERMANY in two, and it has meant the decline of the port of DANZIG and the growth of the port of Gdynia. The annexation of ALSACE-LORRAINE led to a bitterness of feeling between France and Germany which must be considered as a predisposing cause of the WORLD WAR. MEMEL, BOHEMIA, the Alto-Adige in the TYROL, are all parts of Europe from which may arise grave international disagreement, if not war. There have been other geographic causes of political disturbance. The need for expansion, the lack of raw materials have led to many colonial wars. If any European nation enters into naval rivalry with GREAT BRITAIN she threatens Britain's first line of defence, the sea. In many other ways also the geographical position and contour of a country will affect the people and help to weld them into a nation. The CLIMATE, which may make for a physically active or a placid people, the frontier barriers which shut off communication with others, cause ignorance of other countries' languages and make intermarriage between members of different countries unlikely.

For a good understanding of political relations it is obviously necessary to study geography with these effects in mind. Yet geography as generally understood is the consideration of the earth, etc., not so much in relation to living people, but to man as man. Pure Geography is concerned with the position of the MARIANAS, for instance, the climate, contour, rivers, soil, etc. It is not concerned with whether JAPAN has a right to fortify the islands or use them as a naval base. Physical Geography, however, can be detailed as well as vast in its range. Mountains such as MONT BLANC, even the KHYBER PASS, are important and worthy of considerable study. Unless we know where and why RIVERS empty through DELTAS we will know little about EGYPT for example. Unless we know about the causes of WIND and FROST and STORMS, and why the TRADE WINDS, the SIROCCO, CHINOOK or the PREVAILING WESTERLIES blow as they do we cannot understand why there are DESERTS such as the SAHARA, the GOBI, and the KAROO. It is not only the winds which have a part in determining the climate of a country. Its LATITUDE and LONGITUDE will determine its position in relation to the EQUATOR. If it borders the OCEAN or LAKES on the scale of the GREAT LAKES of NORTH AMERICA the ATMOSPHERE will have greater HUMIDITY and hence there will be more rain, and also the TEMPERATURE will be more equable as the water cools the earth in Summer and warms it in winter. The ocean currents such as the GULF STREAM, JAPAN CURRENT and the LABRADOR CURRENT also affect the climate in different parts of the world. The former helps to keep many ATLANTIC OCEAN and NORTH SEA ports ice-free in winter. The last is responsible for much of the coldness of NEWFOUNDLAND and the FOGS which are so prevalent in many parts of the coast. It also carries many ICEBERGS which are a danger to shipping in the Atlantic. The contour of the land has often an important effect on the climate. In AUSTRALIA, for example, the coastal areas are, on the whole, well watered, but in the interior the rainfall is slight since the rain-carrying CLOUDS cannot easily surmount the lofty ranges which divide the coastal areas from the interior. Geography has an historic side which, though sometimes it may be considered a part of political geography, is not necessarily

concerned with or even related to present-day politics. A knowledge of the geography of the land comprised in the DANELAGH throws light on the meaning of present-day place-names. The position of CARTHAGE and its dependencies gives a reason why its destruction was essential to the continuance of the ROMAN EMPIRE.

Geography, too, is a source of much of our knowledge of geological happenings. When we study the geography of an ISLAND, we endeavour to discover the reasons for its existence and shape. It may have come into being as a result of volcanic disturbance, e.g. as the cone of an extinct VOLCANO; or it may have been built up of CORAL. Many islands, however, were originally part of the mainland until erosion by the sea cut them off. When we study in a detailed way the contour of some part of the earth we will be able to tell if the mountains have been worn down by the movement of glaciers, or whether some fertile PLAIN has been enriched by the mud deposited by the FLOOD waters of a river. There are artificial geographical features to be noted; for example, the SUEZ, the PANAMA, and other CANALS. To a greater or less degree the cutting of these canals has changed world trade routes.

Geography, then, whilst it is a science in itself, is also nearly related to other studies such as ETHNOLOGY, GEOLOGY, and HISTORY.

THE "GRID" SYSTEM

OF ELECTRIC POWER GENERATION TRANSMISSION AND DISTRIBUTION

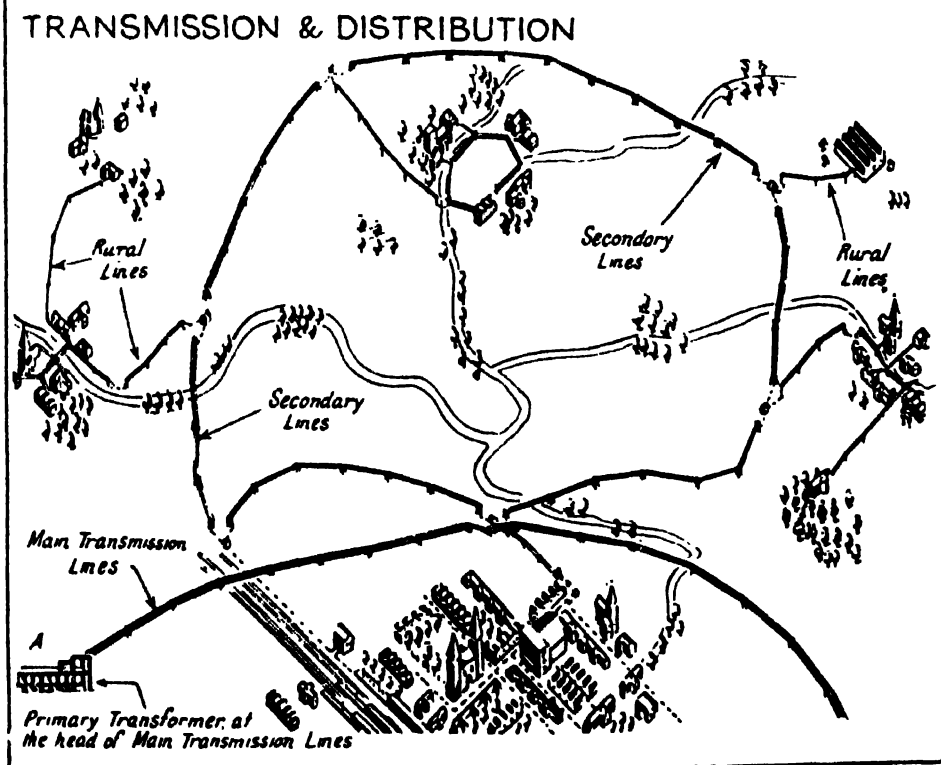
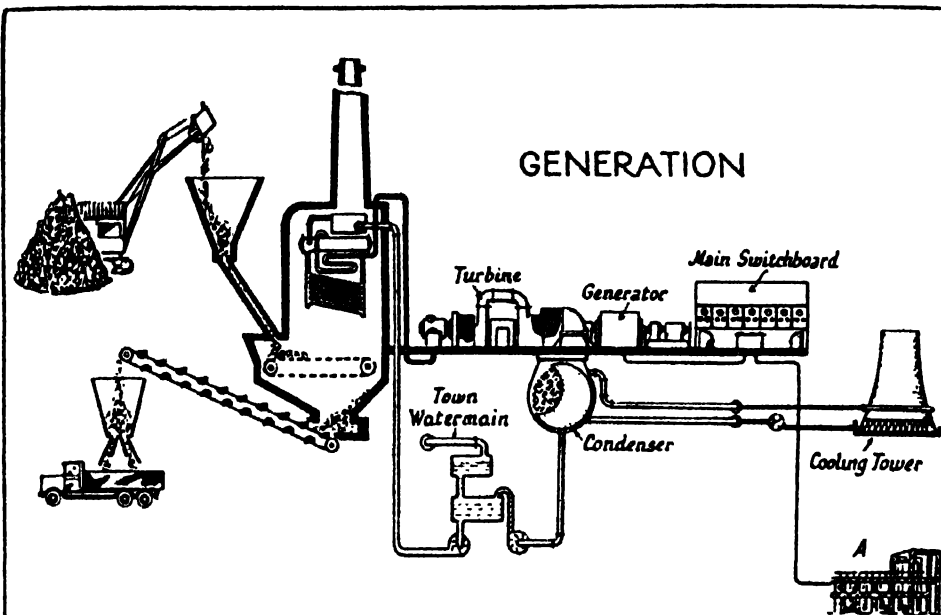
THE "Grid" System in Great Britain provides for generating electric current in bulk and distributing the power from the generating stations to individual houses throughout the country.

The power generating stations are designed to operate either with water under high pressure or with superheated steam. Steam is the more usual, being produced by burning a very cheap low grade coal (which is unsuitable for domestic use or for the production of coal gas) in large furnaces. The jets of high pressure water or of steam are directed on to the blades of a turbine wheel, which is thus made to revolve and so to drive a machine, known as a dynamo or generator, which produces electric current. The current from the generator passes through the main switchboard of the power station, where it is measured and distributed to whichever of the main transmission lines requires it. (Sometimes the current from several generators is supplied to one transmission line.)

Just as the pressure of a jet of water can be increased by narrowing its outlet or reduced by enlarging it, so can the pressure of an electric current be altered by means of a transformer. Before the current actually reaches the transmission line the voltage (pressure) is "stepped up" by a transformer to 132,000 volts, because, for technical reasons, it is more economic to transmit over long distances at high voltage.

The main transmission lines supply the whole country. At intervals secondary lines tap them. Transformers reduce voltage for these secondary lines to 66,000 or 33,000 volts. Then the secondary transmission lines are tapped in turn by rural transmission lines which serve small communities. These carry current at 11,000 volts, which pressure is still too high safely to be used in a house. Therefore, before actual house to house distribution, voltage is again "transformed down" to 400-230 volts.

Into the house itself two wires are led, a phase wire which carries current to the "points" (plugs and lamp-holders), and a neutral wire which carries it away when it has passed through the lamp, fire, vacuum cleaner, iron, kettle or other apparatus which has been connected to the "point." Both the phase wire and the neutral wire are insulated and led through a meter (which measures the amount of current used in the house) to three double pole switch fuses, one for the cooker, one for the heating circuits, and one for the lighting circuits. In each circuit the phase wire is carried first to a switch and then to the plug or lamp-holder. There may be several "points" on each lighting circuit, but there will be only one "point" on each heating circuit. This is due to the fact that other apparatus uses much more current than the lamp, and special fuses are therefore inserted for safety in circuits to which electric fires, irons, etc., will be connected.



(Diagram prepared from charts by the Electrical Association for Women)

QUESTIONS

PHYSICS

1. What lens would you require (a) for a simple magnifying glass, (b) for a microscope? Make diagrams showing the path of the light rays through the lens (a) of the magnifying glass, (b) of the microscope.
Pages 2484b, 2485a, 2762a-b, 2763a, 3154-5.
2. How would you prove that an image reflected in a plane mirror appears to be as far behind the mirror as the object is in front?
Page 2796.
3. What is meant by the following: Ohm, Volt, Ampere, and what relations do they bear one to another? State any laws which define their relationships.
Pages 153a-b, 3133a, 3134a, 4399a.
4. What do you understand by refraction? How would you show that a ray of light is deviated on passing through a glass plate?
Pages 2509, 2510, 2484b, 2485a, 2762a-b, 2763a, 3154-5.
5. A thermometer, whose stem is surrounded with moistened cotton-wool, always registers a temperature lower than that given by one hanging in the air. How do you account for this? What physical constant can be measured by means of the difference between the two temperatures?
Pages 1181b, 1182a, 2114b-5a, 2092a-b.
6. How does the Arago white spot prove that light travels in waves?
Pages 1193a-b and 2510a-b.
7. A steamer is sailing away from a cliff at 15 m.p.h. and the echo of its siren is heard after five seconds. What was its distance from the cliff, (a) when the siren is sounded, (b) when the echo is heard? The thermometer registers 45° F.
Pages 1311a 4013b, 4015a.
8. What is meant by the term "small calorie"? Is it a measure of state or of quantity? Give examples to illustrate your answer.
Pages 703a and 1953a.
9. Explain a "mirage" (a) at sea, (b) on land. Illustrate with diagrams.
Pages 2795a-b-6a, 2796a-b-7a, 3664b-5a.
10. How can it be shown experimentally that on magnetizing a piece of steel the effect produced is strongest at the poles?
Page 2624a.

CHEMISTRY

1. What do you know of the chemical nature of soap, and how is it made?
Pages 3995, 129.
2. What do you understand by Acid, Base and Salt? Give examples.
Pages 22, 23, 409, 1900.
3. Explain the term Allotropy. Illustrate your answer by reference to Oxygen, Carbon, Sulphur, and Phosphorus.
Pages 132, 758, 3206, 3208, 3386-7, 4117.

4. Explain the terms: malleable, ductile, conductor, tensile strength, alloy.
Pages 1796, 1799, 2637, 1270, 1955, 4099, 130.
5. How is bromine obtained commercially and what are the principal properties in which this element resembles chlorine?
Pages 629, 889, 1900.
6. State Avogadro's hypothesis and explain how to find molecular weights.
Pages 2809, 854.
7. Write a short account of catalysis and illustrate by reference to experiments.
Pages 795-796.
8. Name two alloys of which zinc is a constituent. What is galvanized iron? Describe its preparation.
Pages 1667, 4567-8.
9. What are the following substances: sal-ammoniac, aqua fortis, nitre, blue vitriol? Write the formulae for them.
Pages 3834, 3049, 3840, 521.
10. Describe the principal properties of red phosphorus. What do you know of the composition of the substances with which matches are tipped?
Pages 3387, 2099, 2700.

GEOGRAPHY

1. The Great Lakes of North America, with their river and sea communications, are of enormous importance to commerce. Explain this statement, and illustrate it with a sketch map or diagram map.
Pages 1833, 4744-6, and articles on Canada, U.S.A., and the individual lakes.
2. Why is irrigation a prime necessity in many parts of Australia. Where are these parts? What are the methods practised so far, and with what results?
Pages 274, 326-7, 4635 *et seq.*, 4614. See also illustration facing page 329.
3. Where exactly is Newfoundland? How would you describe (a) its climate, (b) its chief physical features? What is its value to Great Britain?
Pages 3006 *et seq.*, 962, 2405, 3252.
4. Where and what are: Karroos, Sudan, Jutland, Engadine?
Pages 2350, 4332-3, 4954, 4928 *et seq.*, 4968-9, 4109, 170-1, 1639, 1160, 1411, 4149. See also illustrations facing pages 4332, 64.
5. What do you understand by solstice, tropics, penumbra, zenith? Illustrate your answer with diagrams.
Pages 4006, 1313, 4119, 4286, 4571, 3323, 1312, 4567, 615.
6. Compare and contrast cyclones and tornados. State briefly their causes.
Pages 4253-4, 4094, 1099, 1100.
7. What are (a) the Gulf Stream, (b) the Japan Current? State what courses they follow, and illustrate with diagrams. Do they influence the climate of the adjacent lands?
Pages 2289-90, 1871-2.
8. State briefly the causes of rainbow, bore, tide, lightning, whirlwind.
Pages 3638-9, 543, 4234, 4461, 2513-2516.
9. Say what you know of the Southern Alps of New Zealand. Pages 3028 *et seq.*, 1763 *et seq.*, 4909 *et seq.*
10. Britain's political supremacy in Europe depends on her geographical isolation. Comment on this statement.

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PHYSICS

HEAT, LIGHT, SOUND, ELECTRICITY, AND MAGNETISM

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LIVING NATURE

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STUDY GUIDES

GENERAL BIOLOGY

FROM the time of the Ancient Greeks, and even earlier, man has been interested and fascinated by the mysteries of living nature, of the beasts in the fields and jungles, the birds in the air, the fishes in the sea, and the mystery of man himself. What was life? Why did animals live, move, breathe, eat, and mate as they did? What was death? Why did all living creatures after a brief existence finally die and decompose? Life seemed to be something mysterious and wonderful and lent itself easily to an interpretation founded on supernaturalism and mysticism, rather than on established observation and the facts arising therefrom.

ARISTOTLE, the father of natural science, as he has justly been called, attempted to solve some of the mysteries of living nature and went direct to nature for his facts, spending long hours on the seashore, collecting, examining and classifying his specimens. Aristotle endeavoured to set forth a complete picture of nature that was based on observed facts; but hampered as he was by the ignorance and prejudices of his time, his work was necessarily full of errors and very incomplete. Aristotle was the first to inquire into nature and set forth an ordered picture of her mysteries.

Under Aristotle's influence and teachings the science of life developed and spread through the Grecian world. The works of Aristotle that have come down to us unfortunately deal only with animal life. While there is little doubt that he concerned himself also with the study of plant life, none of his writings on plant life has survived, and it is to one of his pupils, THEOPHRASTUS, that we owe the first attempt to explain plants and their nature. After Aristotle there were others who made observations of their own and carried on the study of living nature. Chief among these were PLINY and GALEN, but Pliny's work was of very poor quality, due to his credulity, and was based to a great extent on superstition. Galen was concerned mainly with advances in medicine. After Galen, biological science declined and little or no progress was made for fourteen hundred years. Biological thought was kept alive by the Moorish and Arabian physicians, and from them it spread to the West in the fifteenth century. The causes of the decline of scientific thought in the Dark Ages are puzzling. While the rise and spread of Christianity cannot be blamed for the scientific sterility of this period, Christianity did little or nothing to encourage scientific thought and inquiry, but rather encouraged a supernatural and mystical explanation of living things.

Once a desire to seek an explanation of life's mysteries had been aroused again in man, biological science began to develop and expand.

The rise of biology went side by side with the study of medicine, a branch of biology. Since the earliest times, it was usually only the physicians who had the time and the facilities to pursue investigations into the realms of living nature, while they were also the people most interested in the structure and functioning of the body. Two of the physicians in the Middle Ages who had great influence on biological thought were VISALIUS and FABRICIUS. HARVEY's account, published in

1628, of the circulation of the BLOOD, was a landmark in the history of biological thought. Notable advances in biological and philosophical thought were due to the writings of ROGER BACON and DESCARTES; and the invention of the microscope in the seventeenth century opened up a new world. Now the minute structure of the TISSUES and organs of animals and plants could be observed. It now became possible to examine the structure of animals whose bodies were too small to be seen clearly by the eye of the dissector. The new instrument was turned eagerly to the examination of every conceivable thing by such men as Leeuwenhoek and Malpighi. Microscopic animals and plants living in fresh and stagnant water were found. BACTERIA were seen for the first time, but nothing was known then of the rôle some of these organisms play in causing virulent diseases in man.

Investigation with the microscope showed that the bodies of animals and plants were made up of CELLS in which were contained PROTOPLASM, the basis of life itself. The cell theory was born, due to the work of Schleiden and Schwann, who established that the bodies of all animals and plants were made up of these cells, and that the living substance contained therein was the same for animals and plants alike.

With the advance of biological thought, lines of inquiry began to diverge more and more into specialized fields; and so biology to-day can be divided up into a number of daughter sciences, or special subjects, any one of which can be designated as a biological science. MEDICINE can be regarded as a branch of biology dealing with the causes and cure of the many ills to which man is subject. MORPHOLOGY and ANATOMY deal with the structure of animals and plants, while PHYSIOLOGY deals with the functions of the various parts of the body. An important part of physiology is the study of the NERVOUS SYSTEM of animals and the way in which animals react to the external world, through the paths in the nervous system known as the REFLEXES. The study of the development and growth of animals and plants, and the development of the EMBRYO until the adult stage is reached, are treated under EMBRYOLOGY. The structure of the tissues of animals and plants, determined by means of the microscope, comprise the science of HISTOLOGY. Another science in which the microscope is used is that of CYTOLOGY. In cytology the mysteries of the living cell are delved into and the constituents of the cell examined. The protoplasm is seen to be divisible into two parts. In the centre of the cell lies the nucleus, upon the proper functioning of which depends the life of the cell. The protoplasm of the nucleus is distinguished as nucleoplasm, while the protoplasm lying outside the nucleus is known as cytoplasm. At the time of division of the cell small bodies appear in the nucleus. These bodies are clearly seen when the nucleus is stained with appropriate dyes; from this fact these bodies have been called CHROMOSOMES. These are of the greatest importance in the lives of animals and plants, for on the chromosomes lie small particles, the GENES, which are concerned in the appearance of all the characters of the adult organism. The genes are handed down to the offspring from the parent and are the means whereby the offspring resemble or differ from their parents. Cytology is intimately linked therefore with GENETICS, the study of HEREDITY. While genetics concerns itself with the heredity of all plants and animals, another science, EUGENICS, deals with the application of the laws of heredity to the improving of man himself. From the time of the pioneer work of GALTON, eugenics has advanced steadily, and has endeavoured to secure the adoption of measures to ensure that every man is "well-born." Also modern work in genetics has shown the great importance of the

THE ANIMAL KINGDOM

Unicellular	Diploblastic (two-layered)	Triploblastic (three-layered)	Examples
		Platyhelminthes	Tape worms, Flukes.
		Nemathelminthes	Thread worms, Filaria.
		Rotifera	Wheel animalcules.
	Coelenterata (sea anemones, jellyfishes)	Molluscoidea	Sea Mats, Lamp Shells.
		Mollusca	Oysters, Snails.
		Arthropoda	Insects, Spiders.
		Annulata	Earthworms.
		Echinodermata	Star Fishes
	Porifera (sponges)	Chordata	Fishes, Mammals.
Protozoa			

Twelve great divisions or Phyla compose the animal kingdom, but it is not possible to represent these Phyla as originating one from the other. They should rather be thought of as the terminal branches of the tree of life, not as inter-connected, but as sharing a common origin. It is only among fossil forms that actual ancestral relationships are to be looked for.

It is nevertheless certain that the nine Triploblastic Phyla (in which the body arises from a three-layered embryo) have all sprung from ancestors having a two-layered embryo (Diploblasts), represented to-day by the Coelenterata. So we can say that the Triploblastic Phyla have arisen from coelenterate-like ancestors, and that the Coelenterata Phylum represents an actual step in the evolution of the higher Phyla.

In their turn the Coelenterata and Porifera Phyla have certainly arisen from unicellular ancestors (animals in which the body consists of a single cell), represented to-day by the Phylum Protozoa.

social environment in the development of man. Man, together with all animals and plants, is a product of the interaction of the genes and the environment in which he develops. Here we see the linking up of biology with another science, **SOCIOLOGY**, the study of the human race. Closely concerned with this is the science of **ANTHROPOLOGY**, which studies the **RACES of MAN**. **ETHNOLOGY**, the study of the relations of peoples, and **ETHNOGRAPHY**, the study of the various races of man, are branches of anthropology, which can itself be regarded as a branch of **ECOLOGY**. Ecology has as its subject the study of the relationships of all plants and animals to their **ENVIRONMENT**, while anthropology deals with man alone. When plants or animals are placed in a new environment they have to adjust themselves to that environment. This is **ACCLIMATIZATION**, taking many forms, one of the most interesting of which is **PROTECTIVE COLORATION**. Defective adaptation to environment often lays the organism open to attack from bacteria (see **DISEASE**, **BACTERIOLOGY**, and the founders of the science, **PASTEUR** and **KOCH**).

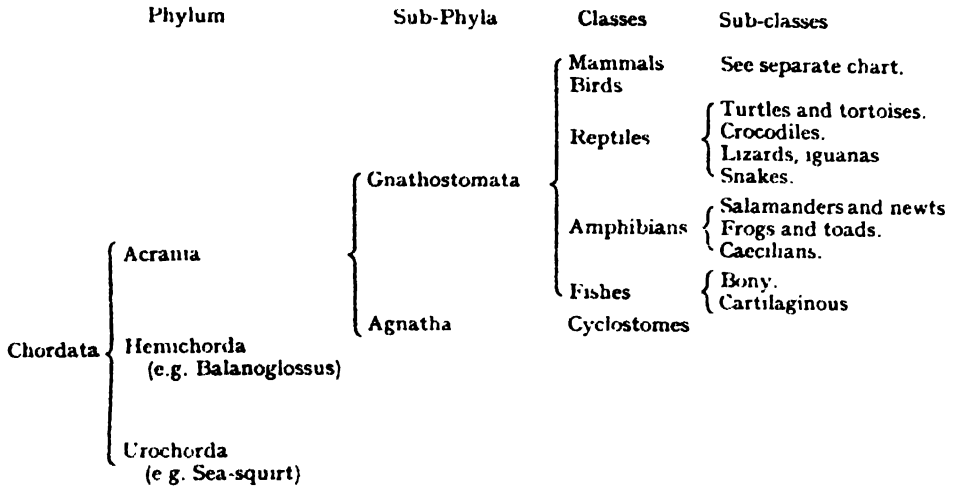
The question whether life can arise spontaneously from non-living matter (**SPONTANEOUS GENERATION**) or whether all life has arisen from previously existing life, has long interested biologists. The respective doctrines are known as **ABIOTHEOGENESIS** and **BIOTHEOGENESIS**. This question is closely linked with that of **EVOLUTION**, a doctrine which has been the work of many men, among whom are **LAMARCK**, **SPENCER**, **HUXLEY**, **WALLACE**, **HAECKEL**, and **DARWIN**. The evidence for the evolution theory comes from many fields. **PALAEONTOLOGY** tells us something of the kinds of animals and plants that have lived on the earth's surface. Other evidence comes from the fields of embryology and comparative anatomy. Although all biologists agree to-day that evolution has taken place, they differ as to the means by which it has been brought about. Lamarck said that evolution comes about through the inheritance of acquired characters, while Darwin and Wallace held that the main cause of evolution was **NATURAL SELECTION**. Darwinism has been modified to-day through recent work in genetics, a science founded by **MENDEL**, one of Darwin's contemporaries.

Though biology deals with living nature it must not be thought that it is divorced from sciences like **PHYSICS** and **CHEMISTRY**. Bio-physics employs the methods of physics in the investigation of the structure of the cell; and **BIO-CHEMISTRY**, dealing with the chemistry of the tissues, has practically revolutionized medicine within the past fifty years. In recent work on heredity mathematics has come to be used more and more.

While the early biologists were concerned mainly with the **CLASSIFICATION**, structure and life-histories of animals and plants, biologists to-day are devoting more of their time to the experimental study of the subject. Experiments are made and the results noted. Further experiments are made to prove or disprove these results, and if no exceptions are found, a tentative hypothesis is put forward to explain them. If this hypothesis stands the test of further experiments, it will in time be elevated to the status of a theory.

The experimental method has also been used to solve social and economic problems of the greatest importance to man. Results of experiments in eugenics have been used to improve the **BREEDING** of animals and plants valuable to man as sources of food or as the raw materials of industry. Experiments in **ENTOMOLOGY** (the science that studies insect life) have led to the devising of methods to control insect pests (see **INSECTS**). The bio-chemist, in his investigation of **VITAMINS**, has

THE VERTEBRATES



In describing the relationships of the groups that comprise the Phylum Chordata or Vertebrates, it is convenient to start with the fishes and work from them upwards and downwards. Forms without jaws and limbs, the Cyclostomes, are obviously more primitive than those with jaws and limbs. Thus the true vertebrates, the Acrania, are divided into two groups: the Gnathostomes, in which jaws are present, and the Agnatha, in which there are no jaws. The latter is represented by only one class to-day, the Cyclostomes (Hag-fishes and Lampreys).

The other two sub-phyla of the Chordata, the Hemichorda and Urochorda, comprise very primitive forms and it is difficult to assess their true relationship. But since they show vertebrate characteristics, chief among which is the presence of a notochord, they are included in the Phylum Chordata.

Among the higher classes the relationships are easier to trace. The Amphibians have arisen from fish-like ancestors, the Reptiles from Amphibian ancestors, and Birds and Mammals have taken their origin from Reptilian stock.

given us invaluable aid in the rational planning of DIET and has laid the foundations for a scientific study of NUTRITION.

Answers have been given to many of the problems which puzzled the ancients. The mysteries of birth, the beating of the heart and the circulation of the blood, have been explained. There remain still many questions unanswered and problems yet to be solved, and among the most interesting and difficult of these can be mentioned the nature of thought processes, the structure of protoplasm, and the final question—whether it be possible to create protoplasm from non-living materials.

BOTANY

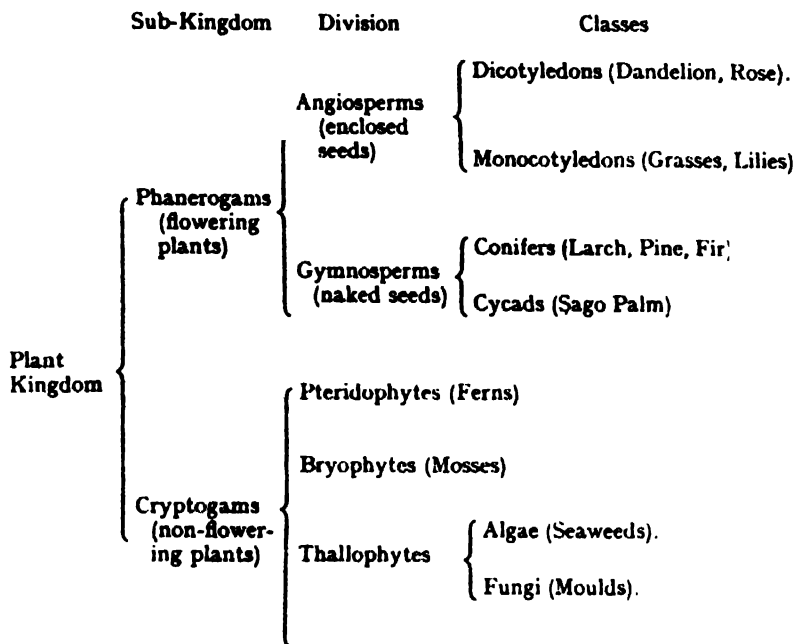
The science of botany is concerned with the study of plants, their CLASSIFICATION, MORPHOLOGY, PHYSIOLOGY, HISTOLOGY, ECOLOGY, and their economic importance to man.

Until the time of LINNAEUS the study of plants had been confined to physicians, who concerned themselves more with gaining a knowledge of those plants possessing medicinal properties than with the study of plant life as a whole. Linnaeus made an ordered classification of all plants known, and replaced the pre-existing chaos by the rule of law. From explorations by botanists of hitherto unexplored countries came a knowledge of the rich flora of the tropical regions, and the science of botany flourished and expanded. Developments in chemistry and physics caused botanists to turn their attention to learning something of the functions of the various parts of the plant. Although for hundreds of years man had cultivated his fields, knowing that crops furnished him with food, he had no means of understanding scientifically why the eating of plant food was necessary for the maintenance of human life, why the food values of some plants were greater than those of others, why plants grew better on some soils than on others, or why his harvests were good one year and bad the next. It remained for the plant physiologist in the eighteenth and nineteenth centuries to supply the answers to these questions.

All animal life is dependent in the first instance on plant life for food. Plants are able to manufacture PROTOPLASM from the chemical salts of the soil and the CARBONIC ACID GAS of the air. The synthesis of protoplasm takes place in the LEAF through the agency of the green pigment CHLOROPHYLL, which is present in the leaf and imparts to all plants their familiar green colour. The formation of chlorophyll in the plant depends on sunlight, and in plants deprived of light no chlorophyll is present (see ETIOLATION). Such plants are unable to perform PHOTOSYNTHESIS.

Modern AGRICULTURE has been accompanied by the practical application of GENETICS, leading to improved methods of plant breeding and the development of improved strains of WHEAT, OATS, BARLEY, etc., better able to resist the attacks of insect pests and diseases caused by some of the BACTERIA of the soil. The majority of the bacteria present in the soil, however, are of great importance to the plant. One of the interconnections existing in nature between animals, plants and bacteria

THE PLANT KINGDOM



The plant kingdom can be divided broadly into two groups: those plants that bear flowers, the Phanerogams; and those that do not, the Cryptogams. The Cryptogams have three divisions: the Pteridophytes, containing such plants as the Ferns and Horsetails; the Bryophytes, represented by the Liverworts and Mosses; and the Thallophytes. The latter is further subdivided into the Algae, mainly aquatic plants and containing the Seaweeds; and the Fungi, which include Mushrooms, Toadstools, and Moulds.

There are two divisions of the Flowering Plants: the Angiosperms, in which the seeds are enclosed, and the Gymnosperms, which have "naked" or unenclosed seeds. The Gymnosperms comprise the Conifers (cone-bearing trees), among which we find such forms as the Pines, Firs, Larches, etc.; and the Cycads. These attained an enormous development in the Mesozoic Period, but to-day are represented by only a few genera. The best known example of the Cycads is the Sago Palm of China and Japan.

The Angiosperms fall into two classes: the Dicotyledons, the embryos of which have two seed leaves; and the Monocotyledons, the embryos of which have only one. The majority of our garden flowering plants are Dicotyledons, while the Monocotyledons include the grasses and Lilies. Most of the common British trees, such as the Oak, Elm, Beech, etc., are dicotyledonous.

is related to the method whereby the soil is periodically enriched with new supplies of nitrogen to replace those absorbed by the growing plant. This is known as the Nitrogen Cycle (see NITROGEN).

Plants require certain essential chemical salts to be present in the soil before they will grow, and whereas previously large tracts of land remained barren because of their unsuitableness for the growing of crops, the wants of these soils can now be remedied by the application to them of FERTILIZERS containing any chemical elements that may be lacking. In the balanced DIET of man VITAMINS must be present: these chemical substances are found mainly in fresh FRUITS and VEGETABLES.

GARDENING, either for the purpose of growing vegetables, or of growing FLOWERS for decoration (see HORTICULTURE), has always been one of man's most popular pursuits. For the proper cultivation of the garden something should be known of the structure of plants and of their life histories. The gardener should be acquainted with the different kinds of ROOTS, STEMS and LEAVES he is likely to meet with—the more easily achieved as the differing kinds are in the main distinguished by their external appearance. An understanding is necessary of the different parts that go to make up the flower, PETALS, STAMENS, ANTHERS, etc., and of the functions that these fulfil in the life of the plant.

In POLLINATION, the POLLEN produced by the anthers is transferred to the STIGMA either of the same flower or to that of another flower of the same species. The former process is spoken of as SELF-POLLINATION and the latter as CROSS-POLLINATION. The chief agencies in bringing about pollination are the wind and insects, of the latter BEES being perhaps the most important. The bright colours of the flowers and the presence of PERFUMES and NECTAR are for the purpose of attracting insects to the flower and thus furthering pollination, and the perpetuation of the life of the plant..

The result of pollination is that SEEDS are formed, and through the GERMINATION of the seed a new plant grows. There are, however, other ways in which plants can reproduce themselves. The production of seed is characteristic of sexual reproduction, but many plants reproduce asexually (see REPRODUCTION). Most plants that exhibit asexual reproduction possess underground stems, such as CORMS, BULBS, RHIZOMES and TUBERS (examples of the four types being respectively the CROCUS, TULIP, MINT, and POTATO). On the underground stems BUDS are formed and these grow to produce the new plant. The possession of underground stems is more common among the types of plants called ANNUALS and BIENNIALS than among the PERENNIALS. Some plants are unable to perpetuate themselves by means of seeds or of underground stems: in these cases the gardener has to resort to GRAFTING and BUDDING.

The plants that are most familiar to man are those cultivated in the gardens and fields and those that he sees growing in the woods. The majority of these are flowering plants (ANGIOSPERMS) and in their classification the structure of the flowers, the types of fruit produced, and the arrangement of the flowers (INFLORESCENCE) are primarily considered. Among flowering plants we find the GRASSES, one of the largest families in the plant kingdom. The grasses include the CEREALS. Another important section of the flowering plants is the TREES. Forests are one of the natural resources of the earth most valuable to man, and though in the past needless destruction of vast tracts of forest land was caused through man's

PALAEOONTOLOGICAL RECORD

Eras	Epochs With Approximate Duration	Range in Time of Animal Groups	Range in Time of Plant Groups
Cainozoic or Tertiary	Pleistocene 1 million years	Appearance of Modern Man	More modern forms Vegetation of modern aspect
	Pliocene } 24	Man-Ape changing to Man	
	Oligocene } 35	Spread of modern Mammals Arising of modern groups of Mammals	
Mesozoic or Secondary	Cretaceous 60	Arising of Archaic Mammals and True Birds Spread of Modern Fishes	Development and Spread of Angiosperms
	Jurassic 25	Arising of Toothed Birds Spread of Reptiles Spread of Primitive Mammals	Arising of Angiosperms
	Triassic 25	Arising of Dinosaurs Arising of Primitive Mammals	Spread of new forms Gymnosperms, Ferns.
Palaeozoic or Primary	Permian 40	Spread of Reptiles	Seed-bearing fern-like plants Primitive Gymnosperms
	Carboniferous 75	Arising of Mammal-like Reptiles	
		Spread of Amphibians	
	Devonian 40	Arising of Amphibians Arising of True Fishes	Pteridophytes of Extinct groups
	Silurian 25	Spread of Ostracoderms	Arising of Land Plants
	Ordovician 60	Arising of Ostracoderms (Primitive Fishes)	Algae (primitive plants)
Pre-Cambrian	Duration unknown		

Geologists have found it possible by comparing the series of strata found in different parts of the world, and by the aid of the fossil remains found in them, to identify a number of well-defined epochs in the geological history of the earth.

The lowest layer in the stratified series is called the Pre-Cambrian. These rocks were formed at a very early period, and practically no remains of animal or plant life are found. The layers above, which contain abundant fossils, have been divided into three eras—the Primary or Palaeozoic, the Secondary or Mesozoic, and the Tertiary or Cainozoic. Each era is subdivided into a number of epochs, as is shown in the table.

The study of the fossil remains found in these layers provides direct evidence of the course of evolution of animal and plant life, but it must not be thought that this evidence gives a complete representation of the past history of life upon the earth. The geological record is imperfect for several reasons. Firstly, the great majority of organisms that die disintegrate and pass away without leaving any remains at all. Usually only animals with hard skeletal tissues will leave remains, and then only if they find their way to a place where rock formation of a suitable kind is going on. Animals made up entirely of soft tissues, such as jelly fishes or worms, are rarely represented by fossils. Secondly, only a small proportion of the earth's crust is available for investigation since the greater part of the earth's surface is under water.

In spite of these limitations, the geological record gives a fairly clear picture of the course of evolution. We find that life on the earth has been continuous from its first appearance in Pre-Cambrian times to the present day, and that groups of animals and plants have appeared in exactly the order we should expect on the hypothesis that each has evolved from some preceding and less highly organized group. If we take the vertebrates as an example, we can see from the table that the first Vertebrates, primitive fish-like forms, appeared in Ordovician times. From Fishes arose the Amphibians, the first fossil remains of which are found in Devonian rocks. Amphibians gave rise to Reptiles, appearing first in the Permian epoch, and reaching maximum development in the Mesozoic era.

ignorance and greed, he has learnt through experience the lesson of AFFORESTATION and how to conserve his trees and prevent unnecessary waste.

Among the more primitive forms of plant life are to be found LICHENS, MOSSES, LIVERWORTS, FUNGI, and ALGAE.

The relationship of the plant to its ENVIRONMENT is dealt with under PLANT ECOLOGY; while PALAEO-BOTANY tells us about the kinds of plant life that existed in the far-off past.

ZOOLOGY

Zoology is that branch of biology which deals with the study of animal life. By animal life is meant all living creatures other than plants and bacteria. The range of animal life throughout the world is immense, and in every corner of the globe is to be found some member of the animal kingdom, from the deepest depths of the sea to almost the highest altitudes. Such diverse animals as fishes, insects, tapeworms, frogs and man, come within the zoologist's range, not to mention the microscopic animals that inhabit the seas and fresh water, the tiny amoeba and its relations.

The early zoologists were concerned primarily with the collection and classification of such kinds of animals as were known to them. These classifications were made on the basis of the degree of similarity in outward appearance of one animal to another. The first such classification to be made was that of ARISTOTLE, who also thought that the more complex animals had arisen from simpler ones, and thus approached closely the modern theory of evolution. Aristotle's system of classification was very primitive and incomplete, but it laid the foundation for a more complete system. No attempt was made to improve on Aristotle's work till the time of LINNAEUS. In 1758 Linnaeus systematized the whole range of animals and plants, as far as the knowledge of that time extended, in a monumental work, the *Systemae Naturae*.

In Linnaeus's system we had laid down most of the conventions that are used to-day in classifying animals according to the degree of relationship they show one with the other. In the Linnaean system the SPECIES is the unit of classification. The biological definition of a species is that all animals that come within a single species should be able to breed freely with one another and produce fertile offspring. It must be noticed that of the very large number of animals classified in museums as belonging to the same species, in the great majority of cases we have no information concerning their ability to interbreed and produce fertile offspring. The specimens that come into museums are gathered from all the corners of the earth: they are separated into different species, the grounds for this classification being often slight differences only, differences which are in fact very similar to those which the modern geneticists have proved to be the result of the modification of a single gene. For example, insects are often placed into separate species because of variations in wing pattern or in the number and arrangement of bristles on the

THE MAMMALS

Class	Sub-class	Section	Order	Examples
Mammals	Prototheria		Monotremes	Platypus, Spiny Ant-Eater
			Polyprotodontia	Opossums, Bandicoots.
	Theria	Metatheria (marsupials)	Diprotodontia	Kangaroos, Wombats.
			Edentata (toothless)	Sloths, Armadillos.
		Eutheria (true mammals)	Cetacea (aquatic)	Porpoises, Whales.
			Sirenia (aquatic)	Dugong, Manatee.
			Ungulata (herbivorous)	Elephants, Horses Oxen, Sheep.
			Carnivora (flesh-eating)	Bears, Cats, Dogs Walruses.
			Rodentia (herbivorous)	Rats, Rabbits.
			Insectivora (insect-eating)	Hedgehogs, Moles.
			Chiroptera (flying)	Bats, Flying Fox.
			Primates (arboreal)	Apes, Monkeys, Man.

The Mammals are divided into two sub-classes, the Prototheria and the Theria, distinguished by differences in the mammary glands. In the Prototheria the mammary glands have no teats, while in the Theria teats are present.

The Prototheria comprise one order, the Monotremes, containing only two species, the Duck-Billed Platypus and the Spiny Ant-Eater.

The Theria are divided into two sections, the Metatheria and the Eutheria. The former are characterized by possessing a pouch, the marsupium, in which the young, born in a rudimentary condition, complete their later development. They are represented by such forms as the Opossums, Kangaroos, and Wombats.

The Eutheria possess no marsupium and the young are nourished in the uterus of the mother, being born at a fairly advanced stage of development. There are nine orders of Eutheria; these orders being distinguished one from another by numerous differences, one of the most important being their teeth formation.

The highest order in the evolutionary scale is the Primates, containing the Apes and Man.

thorax. The modern geneticist's work with the tiny fruit-fly, *Drosophila Melanogaster*, has shown that in this insect a changed wing pattern can result from a single gene mutation, and that through a similar cause the arrangement of the bristles can be affected. Therefore care must be taken to distinguish between a biological species, members of which are known to be able to breed with one another, and a "museum species" where very possibly little or nothing is known. Man (see RACES OF MAN) is a single species, *Homo Sapiens*; for men, from whatever part of the earth they come, of whatever race they may be, can produce fertile offspring. The MULE is the offspring of the HORSE and the Ass, but these are regarded as distinct species, since the mule is sterile.

While the species is a fixed unit, the further divisions employed in the CLASSIFICATION of animals, Genera, Families, etc., are however purely arbitrary terms, based on the subjective viewpoint of the classifier concerned. These divisions represent the impression made on the observer of the degree of similarity or difference between the animals dealt with.

A love of classifying and collecting is common to a number of people. The young schoolboy collects his bird's eggs, his moths and butterflies and shells. He may later forget his boyhood joys; but many continue their youthful enthusiasms throughout their lifetime, and a keenness and delight in their hobby has resulted in many a valuable collection being bequeathed to the local museum. The work of field naturalists, men keenly observant of animal life in the wilds, has produced much valuable scientific data. BATESON's journey up the Amazon may be instanced. During this journey Bateson examined insect life of all kinds, and as a result of his investigations answers were forthcoming to many of the problems of MIMICRY and PROTECTIVE COLORATION among insects. DARWIN's voyage around the world in the *Beagle*, and his observations on animal and plant life in South America, laid the foundations for his later work on EVOLUTION. These were journeys and observations in the wilds from which came zoological work of the first importance. Patient and careful observations like those of FABRE have shown us something of the lives of ANTS and TERMITES.

People living in the country gain a better conception of animal life as it exists in its natural surroundings than do town-dwellers. The country-dweller is brought more into contact with the animals of the fields and woods, and if he or she is observant and interested, can learn something of their habits and lives. For a person who is keenly interested, NATURE-STUDY can prove a fascinating hobby. The watching of BIRDS and the study of bird-behaviour, particularly during the mating season, are aspects of nature-study from which fruitful and valuable data can accrue to the patient observer. Other observers may prefer to examine the life that exists in ponds and streams, while the bent of still others may be for the study of the life of INSECTS. Much work valuable to the professional zoologist can result from the investigations of amateur naturalists. The town-dweller is less able to approach animals in their native habitat than is his country cousin, but need not be at a loss to satisfy his zoological tastes. Most of the larger towns to-day possess well-equipped museums from which the interested can learn something of the animal life of his own and other countries. Zoological Gardens enable the town-dweller to see living animals from almost all countries and the presence of well-stocked Aquaria bring before him some of the diverse forms of life inhabiting the oceans.

All parts of the earth's surface are not inhabited by the same animals. In the

tropical regions we find a richer variety of REPTILIAN life than is found in the more temperate zones. Again, even countries lying in the same climatic zones can show marked differences in their FAUNA; the degree of difference depending on the length of time these countries have been separated from one another. The fauna of Australia and New Zealand, for example, are markedly different. The native animal life of the former consists almost entirely of MARSUPIALS, of such forms as are found nowhere else in the world; while in the latter country, before the coming of white men, there were no marsupials or MAMMALS, but instead a rich fauna of endemic birds, many of whom had lost the power of flight. The fauna of these countries differs so much because of the great length of time during which they have been separated. The fauna of Great Britain, however, is very similar to that found on the Continent, since it is only recently, in geological time, that Great Britain has become isolated from the mainland. The reader can gain an idea of the various types of animal life present in different countries by referring to the articles dealing with these countries.

THE PRIMATES

Order	Sub-Order	Family	Examples
Primates	Lemuroidea		Lemurs.
	Anthropoidea	Hapalidae	Marmosets.
		Celudae	Monkeys
		Cercopithecidae	Baboons.
		Simiidae	Chimpanzee, Gibbon, Gorilla, Orang-Outan
		Hominidae	Man.

The Primates are Eutheria adapted to an arboreal life, the limbs being prehensile. They represent the highest forms of animal life. They are divided into two sub-orders, the Lemuroidea and the Anthropoidea. The former, containing the Lemurs, shows a much lower grade of organization than the latter.

The Anthropoidea are the most highly organized Primates and are divided into five families: representatives of which are the Marmosets, Monkeys, Baboons, Chimpanzees, and Man. The differences between these families are numerous, but refer chiefly to the structure of the limbs and dentition.

The family Hominidae, which represents the highest stage in the evolutionary tree, differs from all other Anthropoidea in the more perfect assumption of an erect posture and in the greater size and complexity of the brain. This family comprises only one species, Man (*Homo Sapiens*).

QUESTIONS

LIVING NATURE

Questions 1-8 are of a more elementary, questions 9-22 of a more advanced, kind. The references after each question are to the pages on which information relevant to the answering of the questions will be found, but use of the Sectional Index will also be of use. Numbers 23-27 are essay subjects.

1. What is the importance of oxygen in the lives of animals and plants?

Pages 173, 485, 552, 582, 759, 3204, 3402.

2. Compare the methods of respiration of the following animals, amoeba, earthworm, fish, frog, man.

Pages 154, 173, 1303, 1543, 1644, 3565.

3. Describe how plant seeds are formed and what happens during germination.

Pages 553, 1748, 3900.

4. What are the differences between a fish and a mammal?

Pages 1543, 2641, 4577.

5. Compare from a botanical point of view the sunflower and the oak.

Pages 555, 1570, 3112, 4122, 4278.

6. What do you understand by the term parasite? Mention some common plant and animal parasites.

Pages 362, 1651, 2057, 2188, 2634, 2801, 3260, 4170, 4575.

7. Describe the life history of the bee.

Pages 438, 2188.

8. Give some common examples of protective coloration.

Page 3562.

9. Discuss the evidence that is put forward to show that evolution has taken place.

Pages 488, 1480, 3227.

10. Describe and explain photosynthesis.

Pages 173, 484, 552, 890, 3402.

11. Describe the structure and the functions of the blood.

Pages 518, 1949.

12. What are hormones; where are they produced; what is their action?

Pages 36, 1409, 1772, 2061, 2193, 3245, 3430, 4230.

13. What is meant by the term "heredity"? What are chromosomes and genes, and what is their importance?

Pages 815, 1482, 1997.

14. Fertilization in plants is a result of pollination. Explain what is meant by pollination, and discuss the difference between insect- and wind-pollinated plants.

Pages 553, 1570, 3476.

15. Malaria is a common disease in the tropics. What is its cause, and what are some of the measures which can be taken to combat it?

Pages 2634, 2866, 3613.

16. Describe the essential features of a balanced diet, and state why they are important.

Pages 173, 484, 1192, 3108, 4396.

17. Give an account of the special properties of living matter.

Pages 152, 2984, 3564, 3665, 4574.

18. Enumerate the stages undergone by food in the process of digestion, and explain their importance in the body's metabolism.

Pages 128, 1194, 1583, 2205, 2742, 4089.

19. Compare and contrast the Darwinian theory of natural selection and Lamarck's theory of the inheritance of acquired characters.

Pages 1129, 1439, 1481, 2417, 2944.

20. Discuss the methods used in agriculture to-day for improving the yield of crops.

Pages 80, 84, 555, 1520, 1700.

21. Give an account of the part played by bacteria in the life cycle of the animal and plant.

Pages 363, 485, 2945, 3049.

22. Describe the structure and functions of the mammalian ear.

Page 1297.

23. Explain how nervous co-ordination is brought about in animals.

24. The flora and fauna of countries differ according to the length of time that countries have been isolated from one another. Show how this statement is borne out by the present distribution of mammals.

25. "Like begets like." Discuss this statement from the standpoint of the origin of living matter.

26. Man is a product of the interaction, during his development, of the genes and the environment. Examine the possible ways in which a changed social environment can affect man.

27. Discuss what you consider to be some of the ways in which the biologist has been of assistance to the farmer.

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LIVING NATURE

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THE ARTS

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The subject-matter of this section is classified under Sectional Index number 6.

STUDY GUIDE

ART

A NATURAL approach to ART AND THE ARTS lies through AESTHETICS, a science dealing with the consideration of the nature of beauty. In its relation to artists, art can be considered in two ways. Usually it is taken to refer to the Fine Arts, DRAWING, ENGRAVING (including WOOD-ENGRAVING), ETCHING, PAINTING (of which OIL-PAINTING, TEMPERA and WATER-COLOUR are the methods), SCULPTURE and WOOD-CARVING. The word "art" can also be used in a broader sense to include all forms of design, when subjects as widely different as INTERIOR DECORATION, TATTOOING, and INDUSTRIAL DESIGN may be included. In the broad sense handicrafts, particularly, are included; under this head may be classed BARBOLA, BASKETRY, CARPENTRY, EMBROIDERY, GLASS, TAPESTRY, TEXTILE PRINTING, POTTERY and WEAVING. Sometimes ARCHITECTURE is reckoned as one of the Fine Arts. LANDSCAPE PAINTING receives separate treatment in these volumes.

There is a natural tendency for men of outstanding ability to influence, in some degree, those around them; various "schools," especially of painting, have been thus formed, the artists being perhaps of several nationalities, the kindred nature of their work, occasioned by the common source of inspiration, being the basis of the "school" (the PRE-RAPHAELITE, IMPRESSIONIST, and POST-IMPRESSIONIST schools are examples). Some countries, lacking for long periods contacts with art forms other than those developed within their own borders, have at one time or another, been the centres of distinctive and purely local forms. ASSYRIA, EGYPT (where the PYRAMID may be cited), and JAPAN are instances. ETRUSCAN ART and works done under the BYZANTINE EMPIRE also receive brief individual mention. Art in the British Dominions is extensively treated in special articles under the individual countries in the *Dominions and India Volume*.

The products of the Fine Arts are the works of individual genius, and therefore in any approach to art the examination of large numbers of individual creators is essential. In the pages of the *World Book* will be found numerous articles on individuals, and we append below a guide to some of the world's most important artists from the thirteenth century onwards with an indication of their nationalities and of the periods in which they worked: *Thirteenth Century*: CIMABUE and GIOTTO (Italian); *Fourteenth Century*: FRA ANGELICO, DONATELLO and Ghiberti (Italian); VAN EYCK (Flemish); *Fifteenth Century*: BELLINI, BOTTICELLI, GHIRLANDAIO, GIORGIONE, MICHELANGELO BUONARROTI, RAPHAEL SANTI, ANDREA DEL SARTO, TITIAN, LEONARDO DA VINCI (Italian); HOLBEIN (the Elder) (German); *Sixteenth Century*: CORREGGIO, TINTORETTO and VERONESE (Italian); BREUGEL (father and son) and RUBENS (Flemish); DÜRER HOLBEIN (the Younger) (German); *Seventeenth Century*: FRANS HALS, HOBBEEMA REMBRANDT (Dutch); KNELLER, LELY (English); LORRAIN (see Gellée), POUSSIN (French); MURILLO, VELAZQUEZ (Spanish); VANDYCK (Flemish); *Eighteenth Century*: BLAKE, GAINSBOROUGH, HOGARTH, MORLAND, RAEBURN, REYNOLDS and ROMNEY (English); Jacques DAVID, FRAGONARD, HOUDON, WATTEAU (French); GOYA (Spanish); *Nineteenth*

Century: CEZANNE, COROT, PIERRE DAVID, DEGAS, GAUGUIN, INGRES, MANET, MILLET, MONET, PISSARRO, RODIN and RUDE (French); WHISTLER (American); BURNE-JONES, CONSTABLE, WILLIAM MORRIS, ROSSETTI and TURNER (English); VINCENT VAN GOGH (Dutch); *Twentieth Century*: PICASSO (Spanish); BRANGWYN, EPSTEIN, AUGUSTUS JOHN, LAVERY, PAUL NASH, ORPEN, SARGENT, and SICKERT (English).

GENERAL LITERATURE

The study of literature is one which can only be carried out completely by reading the works of the authors whose writings compose the literature of the country under review. The term itself may be defined as the accumulated reserve of original writing contributed by any one age, any one country, or by all countries in every age. To attempt a survey of world literature on these lines is clearly impossible without a knowledge of every tongue in which literary compositions have been made, although in this connection the use of the translation is now freely employed and makes it possible to appreciate the literary contributions of other countries to an extent not previously possible.

In so far as the *World Book* contains no extensive quotations from the literary giants of any or every country, it cannot serve as the sole textbook for any course in literature, however brief or restricted. It must rather be regarded by the student and teacher as a companion to the works of the authors being studied, for in that sense it is unusually complete. Material will also be found which throws light on the forms of literature and leads the way to a keener appreciation of their development.

The beginning of the history of literature is lost in obscurity, but it is certain that as a written form poetry preceded prose, and probably arose out of a desire to perpetuate the ballads and stories which were told by entertainers of antiquity. That at least is the commonly accepted explanation of the origin of the *Iliad* and *Odyssey* of HOMER which mark the beginning of classical literature. It is generally conceded, however, that long before that period, which cannot have been earlier than the first millennium B.C., there was an extensive literary production in Egypt and also probably in China.

The most satisfactory way in which to study the literature of any age or any country with the help of the *World Book* is to refer first to the index entries under literature in the sectional index devoted to the arts, and discover there the position of the general article which deals with the literature of the country in question. Generally this is placed immediately after or is part of the article on the country itself. It will be found in this connection that almost every modern state, and similarly almost every country of antiquity, is mentioned, whilst in the articles themselves will be found references to many of the outstanding authors.

To take a single example, let us assume that the subject on which information is required is Greek literature. In the article beginning on page 1847 will be found a moderately full account of its development. It is shown that the literature of Greece is the earliest European literature which has survived. It indicates its origin and its history down to its decline at the end of the fourth century B.C. Epic poetry has a subsection devoted to itself, and the names of HOMER and HESIOD are mentioned. Next follows an account of early lyric and iambic poetry in which

the names of SAPPHO and PINDAR bulk large. Attic literature follows with paragraphs contrasting the three great tragedians, AESCHYLUS, SOPHOCLES, and EURIPIDES, whilst among prose writers, HERODOTUS, THUCYDIDES, PLATO, and ARISTOTLE have special mention.

When this main article has been digested reference may be made for further and more detailed criticisms to the articles devoted to the authors mentioned. All those enumerated above will be found in their alphabetical position in the *World Book*, thus constituting as complete a companion to Greek literature as can be achieved in the space available.

The treatment should be similar in the case of other countries. The abbreviations and criticisms are unusually full in English literature and the literature of the Dominions, whilst the contribution made by the United States of America is by no means overlooked, although mainly described in the articles on specific writers. Thus proper stress is laid on the work of the English-speaking nations.

It will be noted that wherever space permits the articles on authors are both biographical and critical. In addition to the outline articles on the literature of the various countries, and the principal authors of the country, there are a number of sections devoted to specific divisions of literature. In the article on Poetry, for instance, much additional information of a critical kind will be found and dealing with poets such as SHELLEY, WORDSWORTH and SHAKESPEARE. Similarly in the large number of index entries under the heading Poetry, the way is pointed to a fuller appreciation of its nature and of its expression in English and other literature. Novel, Satire, and Drama are three other index headings which reveal the position of all the facts contained in the *World Book* relating to these subjects.

ENGLISH LITERATURE

The study of English literature commences with the Heroic poems of the Anglo-Saxons, poems which were not primarily intended to be written but of which one, BEOWULF, has been preserved through the industry of a monk of Whitby Abbey. CAEDMON is important in the same period, for it is to him that the "Paraphrase" is attributed. The VENERABLE BEDE is in fact as well as in name the Father of English Literature. His *Ecclesiastical History* remains the most important work of Anglo-Saxon times. It must be remembered, however, that this was written in Latin and translated by ALFRED THE GREAT.

Such is the background of English literature. The period which followed, co-extensive with the days of the Norman régime, was not rich in literary production. What was written was largely in the nature of history and written in Latin, as was the monumental work attributed to GEOFFREY OF MONMOUTH, a Welsh bishop who wrote a work which claims to be a history of the British Kings from Brutus the Trojan down to 688. Here, too, we find accounts of King Arthur and the Knights of the Round Table and the Legends of Lear.

The history of modern English literature begins with CHAUCER, who is the earliest author to write in English that is still recognizable and who, in fact, set a literary standard in the language which has persisted under the influence of progressive alteration to the present day. Because CHAUCER is thus the first of the

English stylists, and because his *Canterbury Tales* throw great light on the life of the times and the growth of a cultured society, CHAUCER is the first to receive serious study in the teaching of literature to young people.

For the study of succeeding periods in the development of literature, the student is referred to the article on English Literature beginning on page 1427, where are classified a number of writers divided respectively into the periods of the Renaissance, the Puritan Age, the Age of Reason, the Romantic Revival, the Victorian Age, and Contemporary Times. This article is in fact a study guide in itself, especially since the greater number of authors enumerated will be found more fully treated in their alphabetical position.

It must be borne in mind that these so-called periods of development are not in any sense water-tight divisions. There are authors who were born in one period and lived into the next. Each has only the same nebulous content as the present-day usage of the term "Victorianism." They are convenient terms to distinguish various branches and various trends in the development of our subject.

Among sixteenth and early seventeenth century writers special attention must be drawn to SIR THOMAS MORE who was a man of astonishingly wide learning, and remarkable in his day alike for the purity of his prose style and the uprightness of his character. His *Utopia* is one of the landmarks in the history of the subject. SIR THOMAS MALORY also is pre-eminent in the same period as the writer of the first English prose romance, the *Morte D'Arthur*, to which Tennyson owed so much. Towards the end of the sixteenth century EDMUND SPENSER, CHRISTOPHER MARLOWE and BEN JONSON were noteworthy. But all are overshadowed by the genius of WILLIAM SHAKESPEARE, who as a poet and dramatist remains perhaps the most notable figure in the whole course of literature. The work of FRANCIS BACON marks the beginning of the encroachment of philosophical thought upon literary form. The latter part of the seventeenth century is notable for the work of MILTON, JOHN BUNYAN, and a number of minor but entertaining poets such as HEPPICK.

From the beginning of the eighteenth century to the present day the body of literature produced has become increasingly great, and the number of authors engaged increasingly large. Judgments of literary values can only be relative, particularly in the case of contemporary writers, on whom posterity has yet to make a considered judgment.

DRAMA

The study of the drama in the *World Book* is best begun by reference to the general articles DRAMA, THEATRE, COMEDY, and TRAGEDY. Then, since many of the great theatrical productions are from the pens of the world's great masters of literature (such as BJÖRNSON, CONGREVE, CORNEILLE, D'ANNUNZIO, DAUDET, DRYDEN, FLETCHER (in collaboration with BEAUMONT), GALSWORTHY, GOETHE, HAUPTMANN, HEYSE, IBSEN, LESSING, MAETERLINCK, MOLIÈRE, SARDOU, SCHILLER, SHAKESPEARE, SHAW, STRINDBERG, SUDERMANN, TASSO, VANBRUGH, YEATS), one may turn not merely to the articles on the individual authors, but also the articles on literature which are to be found under the titles of the individual countries. (For

example, ENGLISH LITERATURE, FRENCH LITERATURE, GERMAN LITERATURE.) SCANDINAVIAN LITERATURE is dealt with as a whole.

Greek drama owed its origin to the festivals held in honour of DIONYSUS, the wine god, and tragedy developed out of the high-sounding hymns declaimed on such occasions. THESPIAS is generally credited with being the founder of Greek tragedy. AESCHYLUS, who limited the importance of the CHORUS, SOPHOCLES, and EURIPIDES were the three great tragic poets of ancient Greece; the foremost writer of comedy was ARISTOPHANES. It should, of course, be remembered that the work of the Renaissance playwrights was largely influenced by that of the great Roman writers, SENECA (tragedy), PLAUTUS and TERENCE (comedy).

Much drama, especially in Europe, owes its origin to religion. The PASSION PLAY—of which the most celebrated to-day is that produced every ten years at OBERAMMAGAU—owed its origin to the singing of the Liturgical Gospels on Good Friday by persons representing characters in the story. MASKS, which were used by the peasantry of ancient Greece at the harvest festivals, are used also in the ceremonial dances of Papua and Ceylon, in the MASQUE (which was little more than a pageant or spectacle with dramatic features added; those by BEN JONSON were highly esteemed) and in modern PANTOMIME (which is a legacy of that very early form of play in which mimicry by gesture was the important element). Though the traditional pantomime characters of HARLEQUIN and COLUMBINE no longer are so called, the antics of their modern counterparts are yet of marked similarity. Masks and headdresses, often representative of imaginary beasts, are used also in the traditional presentations at Christmastide by the mummers. MUMMING usually takes the form of mock serenading. MARIONETTES, dolls actuated by strings, are evidenced in Sanskrit writings. They had an important place in the native religious rituals of Java and India, also being used in MIRACLE PLAYS in medieval Europe.

BALLET, an art comprising music, DANCING, and drama, is, in its modern form, of comparatively recent development, but its growth can be traced without a break from the sixteenth century. Ballet has been employed with great effect in many famous operas, particularly in works by BORODIN and RIMSKY-KORSAKOV. Much charming music has been written for the ballet by composers such as STRAVINSKY.

Modern OPERA owes its origin to an attempt in Italy in the sixteenth century to restore the method of musical declamation in which the classical Greek drama was thought to have been performed. Drama and music in combination are the essentials of the opera. Among the world's greatest composers of opera may be numbered BERLIOZ, BIZET, DEPUSSY, and GOUNOD of the French school; MONTEVERDE, SCARLATTI (father and son), CHERUBINI, ROSSINI, PUCCINI, and VERDI of the Italian school; the German composers, MEYERBEER, RICHARD STRAUSS, WEBER (credited with the foundation of the Romantic School), GLUCK, whose works prepared the way for WAGNER, the prime exponent of the Romantic movement, MOZART, BEETHOVEN, who wrote only a single opera based on the work of GLUCK, and HANDEL, most of whose work was done in England, and who wrote forty-two operas before composing *The Messiah*. Among the leading English composers of opera were SULLIVAN (in collaboration with GILBERT), PURCELL, and VAUGHAN WILLIAMS.

The advance of science has played its part in the world of drama. The invention of photography and of methods of recording and reproducing sound led first to moving pictures and then to sound films. To-day, therefore, the CINEMA is but another stage on which the drama is presented. In the welter of productions of all kinds that now compete one with the other, it sometimes happens that there may be a tendency to shock or to wound the varied susceptibilities of the general public. To minimize the misuse of the drama for unworthy ends there has been set up CENSORSHIP.

Other facets of the drama are BURLESQUE (that form of comedy that can evoke laughter without any deep thought), and PUNCH AND JUDY (those characters, so popular with children, are the principals of a comic puppet show of Italian origin). Several famous players, also, such as FORBES ROBERTSON, GARRICK and MRS. SIDDONS, have biographies in the *World Book*.

QUESTIONS

LITERATURE

1. Name two of the most important writers in Anglo-Saxon literature, and say what is known of their lives.

Pages 1427b, 1428a. See also Beowulf, Caedmon, Bede.

2. Describe the salient characteristics of Anglo-Saxon literature, and name any five works belonging to that period.

Pages 1427-1428.

3. It has been said that the development of English literature was seriously hampered by linguistic difficulties. Discuss this in relation to Saxon and Norman writers. In what language did they write, and to what agency do we owe the preservation of such of their work as has survived?

See the whole of the article on English Literature. See also Anglo-Saxon Chronicles in the article on Anglo-Saxons, also pages 171b, 172a.

4. "Chaucer is the Father of English Literature." In what sense is this true? What part did Chaucer play in shaping the form of English language?

Pages 846b, 847a. See also page 1426a, and English Literature.

5. Describe the effect of the Renaissance on the evolution of English literature. Name any three outstanding writers of the sixteenth century and one of the works by which each is best known.

For a general summary see pages 1429, 1430a. See also the articles on Marlowe, Donne, More, Spenser and Malory.

6. How far is the life and times of the Commonwealth period and of the Restoration period respectively reflected in the work of contemporary authors?

Pages 1430b, 1432a. See also Milton, Bunyan, Walton, Pepys, Dryden.

7. What effect did French influence have on (a) the prose, and (b) the poetry, of the late seventeenth and early eighteenth centuries?

See Addison, Congreve, Swift, Pope. See also page 1432b.

8. "The eighteenth century is most celebrated for its prose." Consider this statement by reference to any three poets of the period, naming some of their important works and estimating their claim to celebrity.

See articles on Thomson, Grey, Collins, Goldsmith, Cowper.

9. Which do you consider the most important part of poetry, the thing said or the way of saying it? Discuss this with particular reference to the views of Shelley and Housman.

Pages 3451b, 3452. See also the articles on Shelley and Housman.

10. What are the principal features of the so-called "Romantic Revival" of the beginning of the nineteenth century? What was the effect of the French Revolution on English literature?

Pages 1433b, 1434a. See also the articles on Coleridge, Southey, and Wordsworth.

11. Consider Charles Dickens as a satirist. How much influence did his satire exert towards improvement in education and other institutions?

Pages 1189b, 1190a. See also the article on English Literature.

12. William Shakespeare is often regarded as the supreme genius of the English theatre. Do you agree with this judgment? Describe any two of Shakespeare's plays with reference (1) to character portrayal, (2) to the skill shown in elaborating the plots, (3) to the use of language.

Pages 3918b, 3919. See also pages 1246, 1248 for a synoptic view of the period in which Shakespeare wrote.

13. Describe briefly the history of the novel as a form of literature before the eighteenth century.

Page 3097b, and the whole of the article on Novel. See also Defoe, and pages 1432b, 1433a.

14. Describe the development of the novel as a form of literature in the twentieth century. In what ways has its use extended by comparison with the mode of previous periods?

Pages 3099b, 3100a, 1434b, 1435a. See also the articles on Wells, Joyce, Galsworthy.

15. Sketch the contribution of Canada to literature in the English language (a) in the sphere of poetry, (b) in the sphere of prose.

Pages 4775-4779. See also the articles on some of the authors there mentioned.

DRAMA

1. What are the main forms of the drama and what their origins?

Pages 1244, 1245b, 1246a, 1846b, 1848b, 1849a. See also articles on Aeschylus, Chorus, Comedy, Thespis, Tragedy.

2. At the beginning of the seventeenth century an author and an architect in association profoundly influenced the theatre in England. Who were they and what did they do?

Pages 4215b. See also articles on Jones and Jonson.

3. Describe and compare the theatres of the Ancient Greece, Rome, and of Medieval England.

Pages 1246b, 4214b, 4215a-b.

4. What was the first opera? Who wrote it? When was it produced? Name three leading composers of opera of different nationalities and name one or more of the works of each.

Pages 3149a-b, 3150a. See also articles on the individual composers there mentioned.

5. Dancing is closely linked with drama. Cite early examples. What countries have influenced dancing and in what direction? Name leading composers who have written music for the ballet.

Pages 377a-b, 1118a-b. See also articles on Borodin, Rimsky-Korsakov, Stravinsky.

6. The ritual of the Medieval Church was one of the main sources of drama. Explain and discuss this statement.

Pages 1246a-b. See also articles on Miracle Play, Morality Play, Mystery Play, Mumming, Oratorio, Passion Play, Oberammergau.

7. The cinema is a comparatively new vehicle for dramatic presentations. Trace its history, naming the leading pioneers and the date and name of the

first film to have a plot. In what year did the era of the sound film begin in England?

Pages 906b, 907a, 908a, 911a-b, 912a.

8. The development of the opera profoundly influenced music. In what manner? Who was the famous Italian composer who was the leading figure in the change?

Page 3149a. See also articles on Monteverde and Music.

9. What foreign dramatists have strongly influenced the English theatre?

Pages 1246a-b, 1248b, 1250a. See also articles on Corneille, Ibsen, Plautus, Racine, Seneca, Terence.

10. Name four English dramatists of the Elizabethan period. This was an age of great creative energy; how was its influence manifested in the drama?

Page 1248a. See also articles on Dekker, Jonson, Marlowe, Shakespeare.

ARCHITECTURE

1. What do you know of the origin and use of (a) the arch, (b) the dome, (c) the flying buttress?

Pages 231a-b, 232a, 219a-b, 220a, 1228a, 1576b.

2. What do you understand in architecture by the term Baroque?

Pages 232a, 233a-b, 234a-b, 405a-b.

3. Compare the architectural styles of Quebec and the Maritime Provinces of Canada.

Page 4721 *et seq.*

4. Discuss and compare the architecture of Ancient Greece and Rome.

Pages 24a-b, 219a-b, 220a, 230a, 231a, 309a-b, 4365a-b.

5. Explain the peculiar features of the styles in church architecture known as Norman, Early English, Perpendicular, Decorated.

Pages 3b, 4a, 232a, 475a, 799, 800, 866, 1812a, 2520b, 2817, 2891b, 3075b, 3331a, 4263, 4293b.

6. What do you understand by the Classical School of English architecture? Name two outstanding architects of that school.

Pages 232b, 234a-b, 2325a-b, 4536b, 4537a.

7. What are the chief novelties introduced into architectural design from outside Europe?

Pages 212b, 213a, 230b, 2777a, 2806b, 2865a-b.

8. What do you know of adobe, building stone, concrete?

Pages 34a-b, 647b, 648a, 817a-b, 818a, 999b, 1000, 4090b.

9. What is the outstanding difference between ancient and modern building construction? Cite examples for comparison.

Pages 230b, 231a, 235b, 236a-b, 237a-b; and illustrations on pages 229, 285, 1599, 1995, 3247, 3594, 3595, 4847, etc.

10. Discuss modern practice in heating and ventilating.

Pages 1956 *et seq.*

SCULPTURE

1. Trace the origins of sculpture in the Old and New Worlds. In which has the greatest advance been made? Give reasons for your opinion.

Pages 220b, 296a-b, 354b, 1361a-b, 2706a-b, 3888a-b.

2. Trace the origin of woodcarving and explain its exact relation to sculpture.
Pages 4508b, 4509a, 4730a.
3. Name two leading sculptors of the Italian Renaissance and state what you know of them.
Pages 1230a, 1752a, 3890b, 3892a.
4. What artist has exerted the greatest influence on twentieth century sculpture? Is any clear trend yet discernible in this?
Pages 1444b, 1445a, 3737b, 3892a-b.
5. The careers and abilities of two great artists of the Renaissance have an extraordinary similarity. Name the artists and state what you know of each.
Pages 2758b, 2759a-b, 3892a, 4391a-b.
6. What do you know of (a) Bernini, (b) Houdon, (c) Rude?
Pages 2077a-b, 3873a-b, 3892a.
7. Canova greatly influenced the art of his country and by his encouragement greatly assisted a French and a Danish artist. Who were the artists he encouraged and to what did his influence tend?
Pages 744a, 1131b, 1132a, 1162a, 4226b, 4227a.
8. How and why has sculpture been of great value to archaeologists?
Pages 43B, 44a-b, 220 *et seq.*, 3886b, 3888a.
9. What was the chief failing of Graeco-Roman art and to what did it lead?
Pages 231b, 232a, 389a-b, 675b, 1181b, 1182a.
10. Compare the work and influence of Da Vinci and Michelangelo.
Pages 2758b, 2759a, 3892a, 4391a-b.

PAINTING

1. What led to the great development of art in Italy in the fourteenth and fifteenth centuries? Who were the leading artists of this period?
Pages 166a, 457a-b, 556b, 557a, 1230a, 1752a, 1759a, 2758b, 2759a b, 3216a, 3856b, 4241b, 4242a, 4391a-b.
2. What are the differences in technique and results between painting in (a) oils, (b) tempera, (c) water-colour? Discuss relative advantages.
Pages 1489a-b, 3134b, 3218b, 4197a, 4429b.
3. State what you know of Frans Hals and Rembrandt. Compare their styles of portraiture.
Pages 1900b, 1901a, 3221a, 3862a.
4. What is Impressionist painting? Name leading artists of that school and discuss developments arising from it.
Pages 825b, 1146a, 1759a, 2138b, 2139a, 2648a-b, 2819a, 3425b, 3511a, 3685a, 4461a-b.
5. What do you know of landscape painting?
Pages 2482b, 2483a, 3221a-b, 3223a; and also the individual artists therein mentioned.
6. Discuss the influence on French painting of Watteau, the French Revolution, Cézanne.
Pages 825b, 2139b, 3224a-b, 3225a, 3511a, 4435b.
7. What is Industrial Art?
Pages 1485b, 2164a, 2165a.

8. Discuss the effect on modern Indian painting of the establishment of art schools.

Pages 5048b, 5049a.

9. What is Baroque and to what does it owe its origin?

Pages 405b, 3218a, 3219a.

10. Compare the work and influence of Botticelli and Raphael.

Pages 556b, 557a, 3216a-b, 3646a-b.

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EDUCATION

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STUDY GUIDE

EDUCATION

IN one sense education may be called the instilling into the pupil of the knowledge laboriously accumulated by preceding generations and the inclination of his mind towards wisdom. In another sense it may be in SPENCER's words "the preparation for complete living."

The transmission of knowledge demands some medium, usually the spoken word which is oral LANGUAGE, though it may be signs in the case of the DEAF, or WRITING. This last is usually the medium adopted for the accumulation of knowledge, though until its invention in the form of HIEROGLYPHICS by the Egyptians oral tradition sufficed. We know that the DRUID teachers in IRELAND refused to commit any of their knowledge to writing, and that the folk-lore of practically all nations was transmitted by word of mouth for generations. It was with the invention of writing that the world took a great step forward on the path of education. The teaching of the great masters of GREECE, PYTHAGORAS, EUCLID, PLATO, and ARISTOTLE, would be unknown to us were it not for the fragments of their writings or lectures which have been preserved either in editions of their own works or in the works of others. The ALPHABET, a small thing in itself, is the origin of any great LIBRARY in which is preserved the knowledge which is man's heritage.

During the first few centuries of the Christian Age INTEREST was concentrated upon religious matters and the interested was reflected in the teaching of the SCHOOLS. Much of the great work of this period remains to us in the form of great volumes of the works of the Fathers of the Church, such as AUGUSTINE of Hippo. Apart from these works BEDE's *History* and BEOWULF and the poems of CAEDMON, etc., are of chief interest to English people. The Middle Ages, sometimes considered a period of intellectual stagnation, was a time of almost frenzied enthusiasm. It saw the foundation of the great UNIVERSITIES specializing in SCHOLASTICISM at which taught such great masters as AQUINAS, SCOTUS, and BACON. It was a period, too, of great commentators on current history. MATTHEW PARIS and LANGLAND, who wrote the *Vision of Piers Plowman*, are probably the most famous. CHAUCER, who wrote as a poet, much excelled them in the literary content of his work, and his work had the further value that it largely helped to standardize the English which he wrote as the common language. The work of Richard ROLE, religious in tone, was possessed also of a high literary content, but the fact that he wrote in a dialect soon to go out of common use has militated against the spread of his work.

A step forward in education as great as that which came with the invention of language was made when GUTENBERG invented PRINTING. The work of Gutenberg was carried on in England by CAXTON. It was this art of printing which made the Greek scholarship and classical works, which spread westward after the fall of CONSTANTINOPLE and known as the RENAISSANCE, available to the multitude at possible prices. It cannot be said that after the end of the sixteenth century

educational facilities increased. If anything, the reverse is the case. The schools and universities once open to poor scholars became the prerogatives of the wealthy and many a small school closed its doors. The nineteenth century, for all its material mindedness, brought with it a realization of the State's duties and from aiding the small voluntary schools the State assumed a greater and greater responsibility. To-day there is a BOARD OF EDUCATION, the President of which has a seat in the Cabinet. In 1828 THOMAS ARNOLD went to Rugby as Headmaster, and, although DICKENS could write of Dotheboys Hall, over ten years later, Arnold's work was to endure and prevail. That century, too, saw the birth of both PESTALOZZI and FROEBEL, his pupil, who was the pioneer in the foundation of KINDERGARTEN. The MONTESSORI METHOD which was not introduced until the present century was, in method, an undoubted advance upon that of Froebel, for its inventor was able to use to the full the knowledge of the CHILD, gained by the study of PSYCHOLOGY.

The growth of COLLEGES and schools of all descriptions, and changes such as the introduction of CO-EDUCATION, have been the main features of the advance in education during the twentieth century, though WIRELESS and the CINEMA have great potentialities as mediums of education. Another feature of twentieth-century education has been the foundation of colleges and faculties to give instruction in subjects formerly left to the haphazard medium of tradition: AGRICULTURE and PHYSICAL TRAINING are two of the most important. The same spread of organized teaching is seen in the introduction of NATURE STUDY, EUGENICS, and CALLISTHENICS into the curriculum of schools, and of the foundation of special schools for those afflicted with BLINDNESS or some other dire defects. What the future may bring cannot be known certainly, but we may look forward with some confidence to a general levelling up of the educational standard, an increase in the use of both cinema and wireless, and a better perception of education as a necessity for the complete life, and not a matter of accumulating information.

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RELIGION, MYTHOLOGY, AND THE SCIENCE
OF MIND

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STUDY GUIDES

RELIGION

EVEN the reader who has only superficially glanced at the information given in the *World Book* needs no assurance that the Editors have been alive to the paramount importance of religion for our life. It is hoped that he will also discover that the treatment of the vast range of religious problems has been dictated simply by the desire to give information and to aid further study.

It need hardly be said that the *World Book*, by reason of its character as a source of knowledge, cannot evolve a consistent theological system and deal with the innumerable questions of dogma which are the concomitants of all theological writings. It might be argued that the truly religious person cannot be tolerant, since he is so deeply convinced of the truth of his own position that he does not want to see others suffer for their ignorance. The Editors, on the contrary, have taken every care to allow the different representatives of religious opinion to state their case, since it cannot be the task of a work of this comprehensive nature to convert, but rather to make people understand. Questions of dogma and religious controversies have, of course, not been omitted, but they have been recorded as historical facts, of importance for the development of religious thought and organization. The reader who uses this Index carefully will be able to study the importance of theological controversies, and he will also find the dogmas of most of the heretical deviations from the main path. See, for instance, **ARIAN HERESY**, **BAPTISM**, **EUCCHARIST**, **SACRAMENT**, **SIN**. If he studies the entries dealing with the **NICAEN CREED** he will be able to understand something of the controversy which separated over a hundred million Christians from the **ROMAN CATHOLIC CHURCH**. See also **ORTHODOX CHURCH**.

The Editors do not claim that the *World Book* is a substitute for works in which a definite religious case is stated, but they hope it may serve as a guide book for the comparative study of religion. This study is so much more fascinating as there is not a people in the world, however uncivilized, which has not some kind of religion. The reader may be simply guided by that curiosity which is the mother of all knowledge, and he may merely wish to know what other nations and races understand by religion and what are the forms of their religious ceremonies. He may further want to know something about the other great religions of the world which command the allegiance of hundreds of millions of human beings, and he may wish to inform himself about the ways in which they differ from Christianity. If he reads the entries on **BUDDHISM**, **CHRISTIANITY**, **CONFUCIANISM**, **JUDAISM**, and **MOHAMMEDANISM** he will not only know the structure of the chief religions of the world, but he will be able to understand the meaning of many historical events which are so often the outcome of religious struggles. See **HISTORY**. Everyone knows, for example, what political strength Mohammedanism had and how important the secular power of the **PAPACY** was for the fate of Europe.

The *World Book*, however, does not confine itself to the great religions, since it deals with the whole of our world. The reader will find in all the sections on

the countries and peoples of the world articles on the religious life which will give him information about the religions of the less civilized races.

There are, moreover, even more interesting problems which stimulate investigation. Some scholars have held the opinion that the religions of the world have developed in a definite historic process. The problem of the origin of religion is one of the most fascinating though one of the most difficult intellectual problems. The question whether monotheism or polytheism was the original form of the worship of the Deity has aroused much controversy and can, perhaps, never be answered fully. See RELIGION. The *World Book* cannot acquaint the reader even with an outline of these discussions, which presuppose a profound knowledge of archaeological, psychological and sociological facts, but it can guide the reader and provide him with the material on which he can build. The book list will help him to pursue his studies beyond the scope to which the *World Book* must needs confine itself.

The majority of the readers will be Christians. They will, of course, in the first place want information about the life and work of Christ and the Christian Churches. In the Biographical Section of this Guide Volume they will find references to all the data concerning JESUS CHRIST and the influence of His teaching on our civilization. In the article on the BIBLE and the NEW and OLD TESTAMENTS they will be able to study the most important original sources of Christian thought and teaching.

Religion, like all other forms of life, necessarily leads to organization, since it is not only the expression of the relation of the individual to God, but is a form of social life. In other words, religion and Church are inseparable. The reader who wants to know about the organization of the great Christian Churches will find information in the articles on the CHURCH OF ENGLAND, the ROMAN CATHOLIC CHURCH, and the ORTHODOX CHURCH. He will be able to study the origin and the causes of the REFORMATION with its far-reaching influence on the intellectual life of Europe, particularly if he reads the articles on CALVIN, HUSS, LUTHER, WYCLIF, and ZWINGLI. He will be able to study the growth of *monasticism* and the influence of the *religious orders*. He will follow all the numerous branches of Christianity as they developed in the sectarian movement particularly in the Anglo-Saxon countries. See BAPTISM, METHODISM, WESLEY, etc. He will also find all the necessary information about the forms of the religious service. See, for instance, LITURGY, MASS, PRAYER. Thus the *World Book* affords the student a cursive survey of the most important events and features of religious thought and organization throughout the ages, a survey which it is hoped will stimulate further study.

MYTHOLOGY

The scientific study of myths is of comparatively recent date, and it is no exaggeration to say that up to the beginning of the nineteenth century only a handful of men realized that the myths of ancient Greece and Rome, of Scandinavia, and of the early Middle Ages, furnished the material for a science which contributed

very substantially to our knowledge of man as a social being and of the nebulous origins of civilization. There had, of course, been attempts to explain the origin and meaning of myths before, as the example of EUHEMERUS shows, but these attempts had been isolated and unscientific. See MYTHOLOGY.

Educated men had often a very exact knowledge of the exploits and adventures of the Greek and Roman gods and heroes as related in HOMER's and HESIOD's writings, in the *Metamorphoses* of OVID and other classical books which still are the most important sources for our knowledge of the world of ancient mythology. This knowledge was one of the heritages of the RENAISSANCE, and had a very considerable influence on European literature. The poets, however, were more concerned with the aesthetical value of the mythical stories and used them as a rich quarry of imagery. Some thinkers soon realized that the myths were more than artistic expressions of Heathenism or simple fairy tales. They perceived the strangely human element in these stories handed down by countless generations, and they felt that they revealed how mankind attempted to explain the puzzling phenomena with which we are confronted.

Modern mythology represented by such scholars as SIR JAMES FRAZER is based on discoveries made chiefly by English and German scholars in the nineteenth century. Its most important characteristic is perhaps the realization that each mythology is just as much the expression of a certain stage of civilization as are architecture or poetry. We have become so familiar with the populous world of gods and heroes of whom we have heard since our childhood, that we are apt to forget that they once expressed a certain phase in the civilization of a nation.

The reader will realize that it cannot be the task of an encyclopaedia to make him familiar with the numerous attempts to interpret the different myths in the light of modern science. As mythology has its roots in religious ideas and historic events, and as it represents the knowledge of a nation of certain phenomena of Nature, this would involve a lifelong study, as is shown by the gigantic work of SIR JAMES FRAZER.

The *World Book* can only give the reader the facts which he must know in order to find his way through the labyrinth of the complicated mythological systems. If he reads the article on MYTHOLOGY carefully and with the help of this Index picks his way through the biographies—if this term is allowed in a wholly fictitious world—of the gods and heroes of Greece and Rome, of Scandinavia and of medieval Europe, he will be able to follow those attempts to interpret their adventures which are here simply recorded. If he reads, for instance, the articles on ZEUS, JUPITER, and ODIN he will acquire at least a skeleton of Greek, Roman, and Scandinavian mythology, and if he reads the articles referring to KING ARTHUR, the HOLY GRAIL, and the NIBELUNGENLIED he will have at his disposal the most important facts of the whole of European mythology. If he keeps in mind the close relationship between RELIGION and MYTHOLOGY and HISTORY he will be able to study the LEGENDS and MYTHS, of other than European nations, which he will find in the articles on their history and religion. He will be able to understand those scholars who have tried to establish a common origin of all mythological systems, and he might even discover parallels and resemblances himself. In any case a study of the mythological section of the *World Book* will enable him to understand the numerous allusions and quotations which he finds in the whole of European literature.

PHILOSOPHY

Philosophy is a term rarely defined which embraces a number of heterogeneous fields of inquiry. The primary meaning of the word is "love of knowledge," and in the world's ancient philosophies this meaning was more or less consistently attached to it. In later times, however, when the scope of the various sciences increased and a number of definitive spheres of knowledge emerged, philosophy began to take on its present meaning of scientific inquiry into the nature of being with all its ramifications.

There are two principal methods of approach to philosophy of which by far the most popular is the historical. The other, which is the "comparative," has the advantage of separating several relatively disconnected topics into different categories. In this method of study philosophy embraces first and foremost the science of metaphysics, the inquiry into the nature of reality and the essence of being. As an offshoot of this main subject of investigation it must necessarily embrace also the theory of knowledge, for unless we have an answer to the question "What precisely do I know and how do I know it?" we cannot proceed to the question "What is the nature of reality?" or, in fact, to any question at all. Connected with the theory of knowledge is the science of *LOGIC*, which is in many ways a necessary pre-requisite to the solution of the questions involved in considerations of theories of knowledge. This latter may be defined as an investigation into the laws of thought. Though the precise scope of its fields has been variously interpreted by different philosophers, it is chiefly concerned with the invariable rules which govern men's thought.

These three, *METAPHYSICS*, theory of knowledge, and logic, are so interconnected that it is impossible to study one without reflecting also on the others. There is, however, another field of inquiry which *ARISTOTLE* called *ETHICS*, and which has been known in various forms by that name ever since. Ethics for Aristotle meant inquiry into the conduct of the State, an inquiry, as it were, to determine the ideal conduct of rulers and the nature of the State, whether, for example, it has any real existence apart from the citizens who composed it or not. This question, and similar ones, have in modern thought become known as political philosophy or *POLITICS*, whilst the term Ethics is confined to similar problems affecting human conduct, the nature of the good, the conception of duty, the relation between pleasure and desire, and several other investigations which tend to encroach on the province of psychology.

In modern thought, also, yet another distinct branch of philosophy has emerged from ethical studies, concerned with the nature of beauty, in the same way as ethics is concerned with the nature of good. This latter is known as *AESTHETICS*, and is provoking an increasingly large amount of writing.

The above, then, are the principal working divisions of our subject. Each will be found treated in the *World Book* under its separate heading with additional cross references quoted at the end of certain of the articles, except the theory of knowledge which has been treated in the article on metaphysics.

These general articles are themselves outlines of study which are further developed in the articles on particular philosophers, the names of some of which appear below. In the sphere of metaphysics particular attention is drawn to the article on *IDEALISM* in which the theory is expounded that as a deduction from the fallibility of the

senses we can know nothing of the external world, and the further inference drawn from this is explained that there must exist a reality which transcends the phenomena apprehended by the senses. In the article on **REALISM** the opposing theory is stated. Thus in these two articles the first and most important problems of metaphysics are explained.

It will be observed that ancient philosophers, such as **PLATO** and the medieval philosophers who derived their beliefs from Greek philosophy, used the term Idealism as the antithesis of Nominalism. The nature of this latter doctrine is also explained in the article on Realism. The manner in which metaphysics encroaches upon the sphere of Theology appears in the article on **RATIONALISM**, which is opposed to the doctrine of Supernaturalism, the theory that there is a divine agency which influences terrestrial events. In the article **TRANSMIGRATION OF THE SOUL** also the influence of religion on philosophy is indicated, for the belief in immortality which presupposes a belief in the transmigration of the soul is essentially a philosophic as well as a religious doctrine.

In the sphere of moral philosophy again there are several articles which carry further the particular principles outlined in the articles on Ethics and Politics. The latter is developed in the article on **SOCIALISM**, which is a full and brilliant exposition of a theory which has done more than any other to influence the trend of recent political thought. From the articles on **CONSERVATISM** and on **LIBERALISM**, also, the basic principles which are the *raison d'être* of these parties will become apparent.

The article entitled **JURISPRUDENCE** makes clear the theoretical principles underlying the rules of law and differentiates between the metaphysical school following the teaching of **KANT** and the analytical school headed by **JOHN AUSTIN**, the former deducing the nature of law from abstract conceptions and the latter defining law as the command of the Sovereign. The so-called historical and sociological schools of thought are also dealt with in the same contribution. In **DETERMINISM** some guidance is given towards a solution of the problem of Free Will, one of the most important in ethical philosophy. The article on **UTILITARIANISM** provides an outline of the theory which has been most widely adopted in recent years. By reference to the philosophers named in that article the significance of utilitarianism will become more apparent. In the article on **SCHOLASTICISM** the type and method of philosophy taught and practised during the Middle Ages and pursued to-day by philosophers within the Catholic Church are expounded. For the rest there are definite articles on most of the main schools of philosophical thought, such as **STOICISM**, **MYSTICISM**, etc. Reference to the appropriate index will assist the student in elucidating the appropriate titles, whilst in the article on **RIGHTS** the most important aspects of the subject are discussed and the relation observed between Ethics and Law.

The historical method of approach can also be pursued adequately with the help of the *World Book*. For present-day students the history of philosophy is generally considered to comprise ancient Greek philosophy and the modern English, French and German Schools. In ancient Greek thought little distinction is made between philosophy and science. To the earliest thinkers the end of philosophy was to discover the composition and nature of the physical world.

There are entries in the *World Book* devoted to the work of all the philosophers mentioned in the following paragraphs. **THALES** is probably the earliest of whom any reliable records exist. It is significant that his claim to contemporary fame

in the seventh and sixth centuries B.C. was based on his prediction of an eclipse of the Sun. His contribution to the science of nature was that all things evolved from water. Towards the end of the sixth century PYTHAGORAS, best known perhaps as a mathematician, founded a new school of philosophy which was still principally concerned with the physical world, which with a wisdom beyond his age he believed to be spherical. PYTHAGORAS, however, is also important in the history of philosophy as the first thinker to stress form rather than matter, thus laying the foundations for the later theories of PLATO and ARISTOTLE. It was he, also, who initiated a distinct ethical philosophy as evidenced by his doctrine of the transmigration of souls. In the fifth century PARMENIDES and HERACLEITUS are associated with further progress in thought. The latter was the last of the physical philosophers to name a single material origin for all phenomena. For him the underlying substance was fire and the principle of life was expressed in the dictum "Everything flows, everything is in a state of flux." To PARMENIDES mind and object are actually the same, reason merely reflecting eternal uniformity and being logically identical with it. Thus he initiated investigation into metaphysics as something opposed to physics, and founded the materialistic basis of Greek philosophy. This process was carried a step further by ANAXAGORAS who, in the first half of the fifth century B.C., began the study of thought as opposed to the study of things and was thus the first of the formal logicians.

Such are the bases of the great era of Greek thought represented by PLATO and ARISTOTLE. The former was a disciple of SOCRATES, who in the latter half of the fifth century taught at Athens a philosophy of which there is no written record except that perpetuated by PLATO, and which in ethics seems to have been intimately connected with the doctrine that weakness is the result of ignorance. It is uncertain whether SOCRATES initiated the Theory of Ideas on which the metaphysical fame of PLATO chiefly rests. This doctrine laid down that there are real transcendent "forms," "types" or "ideas" of every class of material objects of which apparent phenomena are copies. These ideas which can only be apprehended by the mind are real and substantive; objects apprehended by the senses are, in so far as they are copies, less real—a theory which must not be confounded with the modern theory of Idealism mentioned above, but which is the first definite formulation of a theory of universals.

With the death of ARISTOTLE the Golden Age of Greek philosophy was at an end. Nor was there another Golden Age in European thought until the seventeenth century. Classical Roman thought was never as profound as that of the Greeks. Just as Roman art was for long a copy of the Greek originals, so their thought advanced but little on the researches of the Greek philosophers. LUCRETIUS's *De Rerum Natura* was hailed as a work of major importance, but has little metaphysical significance. The writings of CICERO also showed much sympathy with philosophical thought and some knowledge of ethical principles, but otherwise are relatively unimportant.

In the Middle Ages the Schoolmen carried on the traditions of Greek philosophy as indicated in the article on SCHOLASTICISM. Of the modern philosophers DESCARTES was the first to wield a lasting influence. The revival in speculation was perhaps due to the growing acceptance of the fact that the universe as it is revealed by science is very different from the universe as it appears to the senses. DESCARTES carried the resulting difficulty to its logical termination, and was the first of a long

line of metaphysicians who were concerned with the apparent opposition between the physical world as it appears and the physical world as it really is.

The student is referred to the article on Metaphysics for the progress of this historical period, and to the articles on LOCKE, BERKELEY, HUME, and KANT, as well as to those on the other philosophers named in the index. With HEGEL, the natural successor in Germany to KANT and the founder of a new German school of thought, a philosopher who made his mark as much in Aesthetics as in Metaphysics, we reach the latest era of thought. The article on KARL MARX and that on Socialism show its trend in politics and ethics, whilst the reading lists appended to this guide name a few of the most important contemporary works.

PSYCHOLOGY

Psychology occupies a peculiar place among the sciences. Because its subject-matter is the mind and mind is only directly accessible through introspection, every man must to some extent be a psychologist. See the article PSYCHOLOGY. We are all of us interested in ourselves and even without a specialized training we tend to think ourselves competent to judge on psychological questions and we carelessly make use of terms of psychology which have passed into everyday use, words such as WILL, SENTIMENT, COMPLEX, which we accept without troubling to define them closely. We speak, for instance, of SUGGESTION or of the UNCONSCIOUS without always realizing the full implications of these terms. Some terms, such as inferiority complex, have become so hackneyed that people tend to forget their true psychological meaning. See INFERIORITY COMPLEX. Scattered throughout the *World Book* are definitions of the main terms of psychology, together with historical and analytical surveys of the various aspects of psychological theory and practice. Since psychology is a growing force in the modern world, it is necessary for everyone to use such of its terms as he must inevitably encounter as accurately as possible. The aim of this article is to draw together the information contained throughout the *World Book* and to relate the different aspects of psychology to a general whole.

According to its ETYMOLOGY, psychology is the science of the soul; it was this original confusion with philosophy that prevented the emergence of psychology as a true science until very recent times. ARISTOTLE took an important step when he defined the soul as the sum of the individual's vital functions. No further important advance was made until the development of the physical sciences in the seventeenth century, when DESCARTES asserted that man's MIND worked according to purely mechanical laws. This mechanical view of the mind, though in itself inadequate as a basis for the study of psychology, helped to clear the way for experimental observation of mental phenomena. With the clinical work of the Frenchmen, JANET and CHARCOT, on HYSTERIA, the foundation of the modern study of behaviour was laid, though their method of treatment has been largely superseded.

A new element of the first importance was introduced into modern psychology by the work of FREUD, who for the first time showed the part played by the

"unconscious" in determining human behaviour. Roughly, the UNCONSCIOUS is that part of the mind (though to use a metaphor of space is misleading) which is outside the individual's own awareness, but yet is charged with energy and continues to influence behaviour. This concept of the unconscious has profoundly influenced all subsequent thinking on the subject of psychology. ADLER, whose main thesis is the urge of the individual to power, and JUNG, who speaks of undifferentiated energy, share FREUD's dynamic conception of psychology. It is interesting that in the work of JUNG psychology re-approaches philosophy (*Modern Man in Search of a Soul*).

The mind of the individual, which is the centre of psychological study, may be said to consist of the sum-total of all that individual's experiences, and since each experience modifies the individual to whom it occurs, mental growth is continuous. That is to say, experiences do not co-exist side by side, but each is related to previous experiences and all form one great mental system. Experience can be subdivided into its three elements of knowing (cognition), feeling (affect), and striving (conation). We are aware or know with our senses, touch, hearing, smell, sight, but into our knowing enters also memory or recognition. See MEMORY, SKIN-SENSATION. Feeling and striving are closely connected and together make up EMOTION; we have specific feelings in response to the instincts of FEAR and ANGER and the appetites of HUNGER and SEX (appetites are differentiated from instincts in that their stimuli are internal rather than external), and these feelings find outlet in typical activity. It is an important distinction between animals and men that whereas the forms of activity in animals in response to instinctive feelings are rigidly determined, in man, though the feelings may be the same, yet the type of activity can be controlled and varied. For instance, a feeling of anger may find its outlet in blows or bitter comments or may be controlled or resolved into a joke, whereas an angry dog will always show fight. When emotions are organized round an object they form sentiments; for example, patriotism to one's native land, which is a permanent part of the individual's mental equipment instead of being a response to a definite stimulus. When an impulse is aroused, it tends to continue until it has found some outlet; it is not always socially possible, however, for an impulse to gain outlet in action, and then the individual must learn to divert the energy derived from the impulse into some other channel, otherwise conflict or else repression of the impulse will be the result. If the impulse is pushed below the level of consciousness, it continues to operate and find a devious outlet. This method of dealing with impulse is open to the objection that the impulse no longer comes under the control of the organizing will and, if the repression occurs in childhood, the energy remains on a childish level. The will, which controls the conscious mind, may be regarded as the movement of the self towards its ideals.

The subject of repression of instinctual drives brings one to the realm of psychopathology (see INSANITY, NEUROSIS) or the study of morbid states of mind, that is, one passes from normal to abnormal psychology. One can see, however, that the abnormal mind functions according to principles which are in operation throughout mental life, and that there is no sharp-cut distinction between normal and abnormal. Mental disorder may be divided into the psychoneuroses, in which a part of the personality only is disturbed and the main stream of mental activity is in touch with the ordinary world, and the psychoses, or insane states of mind, in which

(1) Hysteria, of which the distinctive characteristic is the appearance of a physical disability without a physical cause; (2) obsessional neurosis, in which the patient must carry out some ritual of thought or action or else experience acute discomfort; and (3) anxiety state, with its vague feelings of dread and panic. The psychoses can be roughly divided into: (1) Organic mental disorder; (2) manic-depressive illness, in which the patient is either lethargic and depressed or else over-excited and filled with a sense of well-being which is unrelated to his circumstances, and these two states may alternate; and (3) schizophrenia (*dementia praecox*), which comprises a large, heterogeneous group of symptoms whose only common feature is that they show disordered thought. Frequent symptoms are hallucinations, or false sense impressions, delusions, or false beliefs, ideas of persecution (*paranoia*), and ideas of reference, that is, all occurrences are taken personally.

In recent years, the study of the psychology of childhood has thrown valuable light on the problems of general psychology. See *CHILD*. The earliest work was done from an educational point of view: tests were drawn up and standardized according to age grades which tested not only specific abilities, but were closely correlated with general intelligence, so that it became possible to establish a norm of intellectual achievement for each age. Similar tests are used for adults, though it is generally considered that they are less satisfactory than the tests for children (see *MENTAL TESTS*). There have been further advances in the study of the behaviour problems of children in the various Child Guidance clinics established throughout the country. See *CHILD GUIDANCE*. It is hoped and believed that by treating children along psychological lines while their minds are still plastic, the future population of the prisons and mental hospitals may be diminished and much suffering and loss to the community may be avoided.

Another practical application of psychological method lies in the sphere of *INDUSTRIAL PSYCHOLOGY*. The work is still to a large extent experimental, but it has already proved its value; tests of fatigability and strain in industrial workers reveal possibilities for adjustments which improve the health and increase the efficiency of the workers.

Much emphasis has been laid on individual psychology, since all mental processes can only be studied ultimately through the individual mind. Nevertheless, it is significant and necessary to study the behaviour of men in society, and this forms a distinct branch of psychology known as social psychology. Man in society is both less and greater than man as an individual, he is swayed to a greater extent by emotion and prejudice, but at the same time he is inspired by the traditions and ethos of his group.

Psychology in its theory and practice requires a special technique, and is not immediately accessible to all simply because we all possess some knowledge of our own mental functions. At the same time it is not to be considered a mystery reserved for the few. It is a valuable instrument towards control of the environment, and no student of human affairs can afford to neglect what it has to teach.

QUESTIONS

PHILOSOPHY

1. Describe the ethical theory known as Utilitarianism. What are the chief objections to accepting it without reservation?

Pages 1459b, 1460a. See also the articles on Mill and on Utilitarianism.

2. What is the meaning of Plato's "Doctrine of Ideas"? Compare Plato's position with that of Descartes.

Pages 3440b, 1172b, 1173a. See also the article on Metaphysics, particularly pages 2745b, 2746b.

3. How far is experience our only guide to knowledge?

Page 2745b and the whole of the article on Metaphysics. See also the article on Kant.

4. Give a brief outline of the trend of Greek philosophy prior to Plato? What are the outstanding contributions of any three philosophers of that period?

See the articles on Pythagoras, Parmenides, Heraclitus, Thales.

5. How far can law interpret exactly ideal standards of Ethics? Consider this specifically in the matter of Rights.

Page 3722. See also the whole of the article on Ethics.

6. Is Beauty objective or subjective? Define the meanings of these terms.

Page 586, and the whole of the article on Aesthetics. See also the article on Objectivism.

7. What is the relation between the Beautiful and the Sublime in Kant's theory of Aesthetics?

Page 596.

8. In what way does Schopenhauer's theory of beauty follow naturally from that of Kant, and that of Croce from that of Schopenhauer?

Pages 59b, 60a. See also the article on Schopenhauer.

9. What is the Syllogism? How far is it a valid form of reasoning?

Pages 2563b, 4157a.

10. Give three examples of (a) conjunctive propositions, (b) alternative propositions, (c) disjunctive propositions.

Page 2562b.

11. What is the error underlying Aristotle's Logic? What reasons may have contributed to this error?

Page 2563a, b. See also the article on Syllogism.

12. Distinguish between Inductive and Deductive reasoning. Is the method of induction a valid means of reaching true statements?

See the article on Logic, particularly pages 2563, 2564a. See also pages 2162a and 1143b.

13. Compare the metaphysical theories of Kant and Hegel. How much original thought was contributed by the latter?

Page 2747. See also the articles on Kant and Hegel.

14. What were the principal steps in the progress of philosophical thought from the Middle Ages to Kant?

See the article on Metaphysics. See also the articles on Berkeley, Descartes, Hume, Locke, and Kant.

15. What are the distinguishing features of a Capitalist System? What alternative does the theory of Socialism offer?

Pages 3474-5. See also the articles on Socialism and Marx.

16. Examine the arguments for believing that a real world exists, of which our sense data are the reflection.

17. "Other philosophers have only interpreted the world. Our business is to change it." Consider the view concerning the role of philosophy in human life implicit in this statement.

18. Discuss the importance of the Kantian "categories" in that philosopher's theory of knowledge.

19. A system of ethics can be based on the hedonistic principle alone. How would you criticize such a system?

20. "Science commits suicide when it adopts a creed." Discuss the philosophical implications of this statement.

PSYCHOLOGY

1. Describe the importance of Freud's work for modern psychology.

Page 3574a *et seq.* See also Freud; Unconscious.

2. What is meant by suggestion and what are its advantages and disadvantages as a method of psychotherapy?

Page 4115b *et seq.* See also Psychotherapy.

3. What are the main characteristics of the behaviourist school of psychology?

Page 3575b.

4. Discuss the importance of the use of hypnotism in the treatment of mental disorder.

Page 3574b. See also Hypnotism; Psychotherapy.

5. Describe what is meant by the use of free association.

Page 3574b *et seq.*

6. What do you understand by the unconscious mind, and in what way can it be reached?

Page 4327b *et seq.* See also Psycho-analysis.

7. Define the term emotion and discuss its importance in psychology to-day.

Page 1404a *et seq.* See also Psychology.

8. Describe briefly how the study of dreams can contribute to the understanding of mental life.

Page 1255b *et seq.* See also Psycho-analysis.

9. What is meant by wish-fulfilment? Give several examples of it.

Page 1255b *et seq.*

10. Describe the most important events in the history of psychology in the last fifty years.

Page 3576a.

11. Distinguish between the terms psychiatry and psychotherapy.

Page 3572b *et seq.* and page 3576b.

12. What is the meaning and function of transference in mental healing?

Page 3575a.

13. How has the introduction of experimental methods affected the modern study of psychology?

Page 3575b *et seq.*

14. What type of factors influence memory?

Page 2731b.

15. What is meant by the theory of psycho-physical parallelism?

Page 2777b.

16. Discuss the indebtedness of modern psychology to (a) physiology, (b) introspection and individual analysis, (c) statistical methods as applied to clinical cases.

17. Do you consider that the methods of observation employed by the Behaviourist School necessarily impose serious limits upon the value of the work done by these psychologists?

18. The study of abnormal psychology has always been the foundation of our knowledge of normal psychology. Comment.

19. Discuss the contributions which the psychologist can make to either Economics, Political Science, or Criminology.

20. Examine the part played by Instincts and Emotions in the life of the individual.

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THE BRITISH EMPIRE

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PART II
DICTIONARY OF BIOGRAPHY

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BIOGRAPHY

INTRODUCTION

THE history of human thought is full of controversies which, in spite of their obvious futility, continued to occupy the minds of many thinkers, and which bulk largely in the intellectual discussions of all ages. One of the best-known controversies of this kind is concerned with the problem whether men made history or whether it was rather history which made men. It can easily be seen that the answer to this question involves a whole series of problems which are of first-rate importance not only for the interpretation of history, but also for the everyday life of the individual. The thinker who believes in the predominance of the part played by the individual in history is inclined to interpret history merely as the environment of great men, and he tends to conclude that hero-worship is the only legitimate attitude for the crowd, just as the thinker who considers the great men simply as the spokesmen of their times, or even as the representatives of certain interests, will show a dangerous tendency to undervalue the importance of the individual. It is obvious that dogmatic adherents of these diametrically opposed attitudes will hardly do justice to the problems with which the history of civilization confronts us.

In reality, of course, the basic question which this controversy implies is in itself unanswerable. No legitimate answer to the question whether the individual or the circumstances decide the issue can be given, since, in truth, actions cannot be conceived of without men any more than men can be conceived of without actions. All actions, however, are determined by a variety of causes, none of which can be left out of account entirely. History would not have moved without such men as ALEXANDER, CAESAR, LOUIS XIV, CROMWELL, NAPOLEON, and NELSON, and a host of men of minor importance, but, at the same time, these men would not have been able to move the world in the way they did without the particular circumstances of the time in which they lived, and the conditions under which they worked. Whether we stress more the biographical side of the history of the achievements of mankind, or emphasize rather the environmental and social factors, is a matter more of method than of principle. The student, at any rate, will not succeed in gaining a comprehensive and objective insight into the growth of human thought and the development of human achievements unless he applies both methods, just as the man who wants to describe a mountainous landscape cannot content himself with a mere description of the peaks.

The reader of the *World Book* who bears this in mind will discover that great care has been taken "to give to Caesar what is due to him," but at the same time to let all the facts which went to the making of history speak for themselves. In this particular section of the index we deal, of course, entirely with the biographical aspect not only of history proper, but also of literature, music, architecture, politics, etc. The biographical index, in short, guides the reader through the ages of human civilization, and the reader is asked to focus his attention on the men who shaped or influenced the course of this civilization. To this index, accordingly, those may turn in the first place who like to think in terms of personal achievements, for whom,

for example, the political history of England is implied in the lives of **WILLIAM THE CONQUEROR**, **EDWARD III**, **HENRY VIII**, **CROMWELL**, and **PITT**, or the history of music in the lives of **BYRD**, **BACH**, **MOZART**, **BEETHOVEN**, **CHOPIN**, and **SIBELIUS**.

This legitimate and widespread interest in the personal side of life does not at all mean that the innumerable factors which enabled a great man to achieve his aims are neglected. The reader, for instance, who wants to inform himself about the development of music and has read the articles on the lives of the great musicians, has, no doubt, penetrated to a large extent into the knowledge of his subject, but he would be far from his goal if he were to stop there. In order to understand the importance of a man like **BACH** into the development of music, he must know what musical instruments were actually used at the time when **BACH** worked, which musicians influenced his style and what his own influence was on his contemporaries and successors. He must know something about the religious tenets and the social tendencies of **BACH**'s epoch if he wants to appreciate to the full the peculiar style of his Church music.

Another example taken from a quite different field of knowledge may further illustrate this point, and thus help the reader to put this index to the greatest possible use. Let us take the case of a reader who is interested in the development of the ancient Roman Empire, because he is aware of its inestimable importance for modern Europe. Let us again assume that this reader is primarily interested in men and their fates and that names such as **CAESAR**, **AUGUSTUS**, **NERO**, and **TRAJAN** will crowd on his mind. He will also have gained a considerable amount of knowledge if he has read the biographical articles on these men and on other builders of the Roman Empire, but it is certainly not the maximum knowledge which he can gather from the *World Book*. He will be able to increase his insight into the structure of the Roman Empire not only by the study of the setting in the midst of which these men acted, but also by an investigation into the influence which they exerted on their own and subsequent times. **CAESAR** and **AUGUSTUS** were not only Roman leaders, they were also to a large extent makers of modern Europe, and the methods which they adopted and the problems with which they were confronted were also the methods and problems of many future generations. It has often been said that each generation rewrites history according to its own standards and in the light of its own values. It would be just as correct to say that each epoch rewrites its biographies. Everybody knows how differently men have been valued by different generations, and how fiercely controversy has raged about the interpretation of the life-work of many men. The index enables the reader to study this problem in detail; it shows him what men at different ages have thought of such men as **ALEXANDER** or **CAESAR**, and this in itself will help him to understand their lives more fully.

It is to this end that this guide volume has been devised. It allows the reader to choose the angle from which he wants to look on the world, and it helps him to proceed from this angle in as many directions as his interests will lead him. In the biographical index the angle is the personal one and the reader is invited to travel into the land of knowledge, as it were, in the shadow of the great actors on the stage of mankind. The student would not obtain all the information which the *World Book* can give, say, on **BACH** or **NAPOLÉON** if he only read the biographical articles on these men, but he would not be able to find this additional information without the index. With its help he can at a moment's notice find every passage

which deals with BACH or NAPOLEON out of more than 5000 pages, so that he can study or at least notice all the problems with which the biographers of these men are confronted. Since the *World Book* was written by a number of collaborators who worked independently of each other, the reader will meet with different viewpoints and varied interpretations; he may occasionally even find that the life-work or the character of a person has been valued from opposed points in different places. This fact illustrates the peculiar difficulties which beset historical and biographical research, but the Editors are at the same time convinced that a certain variety of interpretation is the best guarantee of objectivity and will, more than anything else, enlarge the horizon of the student.

The times have long since passed when biographies were merely written in order to glorify a man for the services he had rendered to a certain cause, or in order to relate personal anecdotes or even scandal. The modern biographer has learned to set his hero against the background in which he lived and to set aside his own ethical or political prejudices. He has, above all, learned that a modern biography must in the words of the *Oxford Dictionary* be "the history of the lives of individual men as a branch of literature." Nobody will expect the *World Book* to contain miniature biographies which meet the requirements of a modern biography as a work of art, though some at least have all the essentials of good biographical writing. The character of the *World Book* as a book of reference necessitates a very wholesome limitation to facts and to the most important ones at that. It will easily be realized how difficult it is to select out of the countless armies of men, who have had a share in the development of civilization, those who are entitled to be put on record. The reader may find that not all the men whom he considers important, or whom he for some reason or other holds in esteem, have an article to themselves. He will, however, also find that any man who by general standards was of some importance in his field will at least be treated in some passage. The index will help the reader to track him down. The *World Book* for obvious reasons cannot give all the information which a man who is particularly interested in his subject or an expert may require, but if it can stimulate further research into the relation of the human element with social factors in the history of civilization, and can advise the reader on the lines which he ought to pursue, it will have amply fulfilled its purpose.

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History: Archaeology: Defence and War.

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